# CuLink™

Operation Manual

Brought To You By

# Vailstream™

Part of the CTI Group

CTI Control Technologies International

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# CuLink™

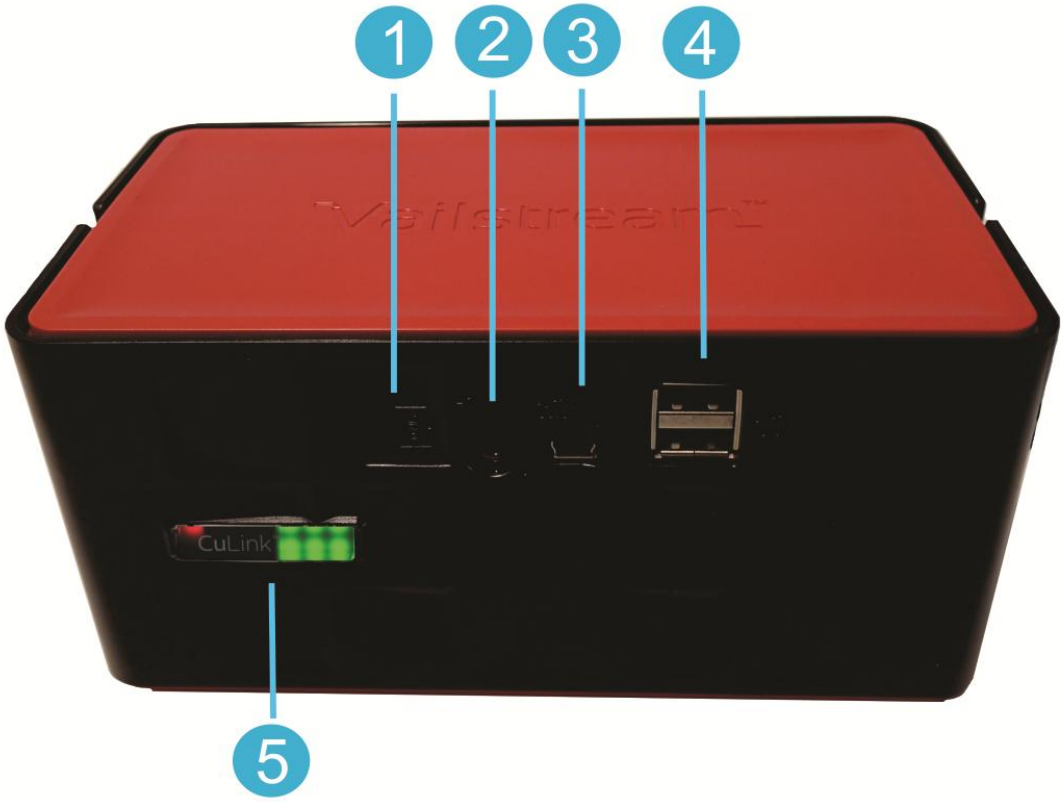
**by**

# Vailstream™

**your solution to home connectivity!**

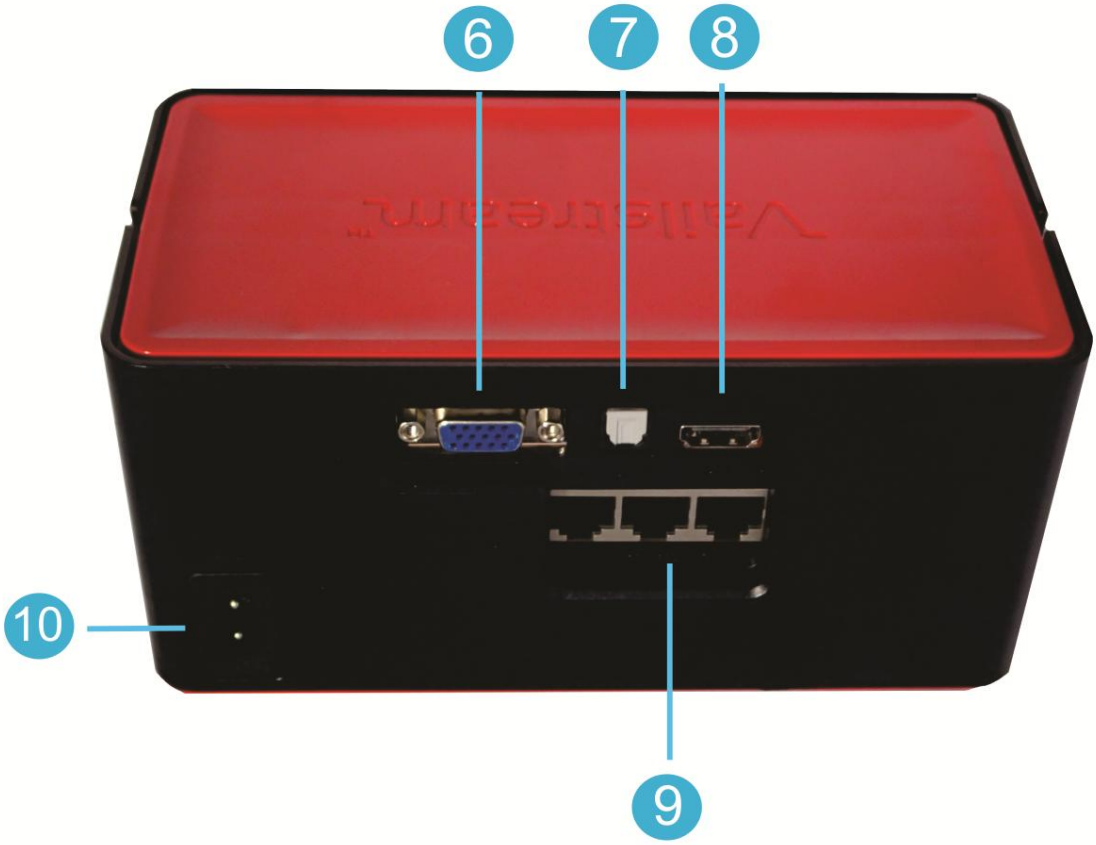
# 1. Product Overview

## CuLink - Front View




1. **Micro SD Port**
2. **Audio out**
3. **Mini USB Service Port**
4. **2 x USB 2.0**
5. **Power & Ethernet status**

# CuLink - Rear View




6 VGA

7 S/PDIF audio out(Fiber optic audio out)

8 HDMI

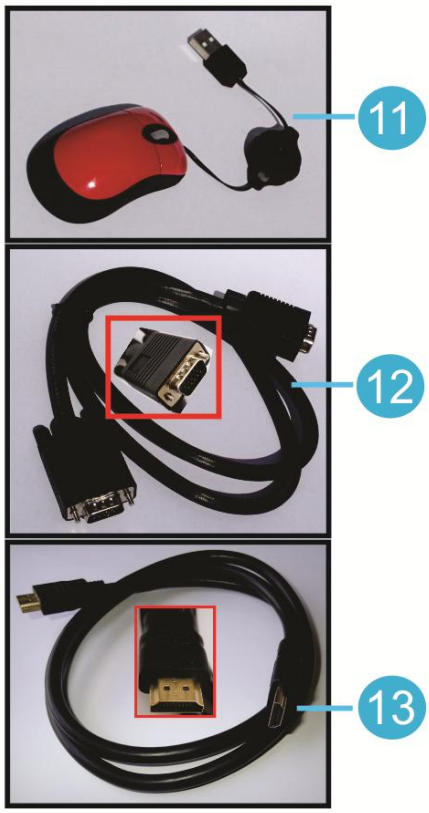
9 3 x Ethernet ports 1Gb/s

10 A/C socket

**Your unit includes the following components;**

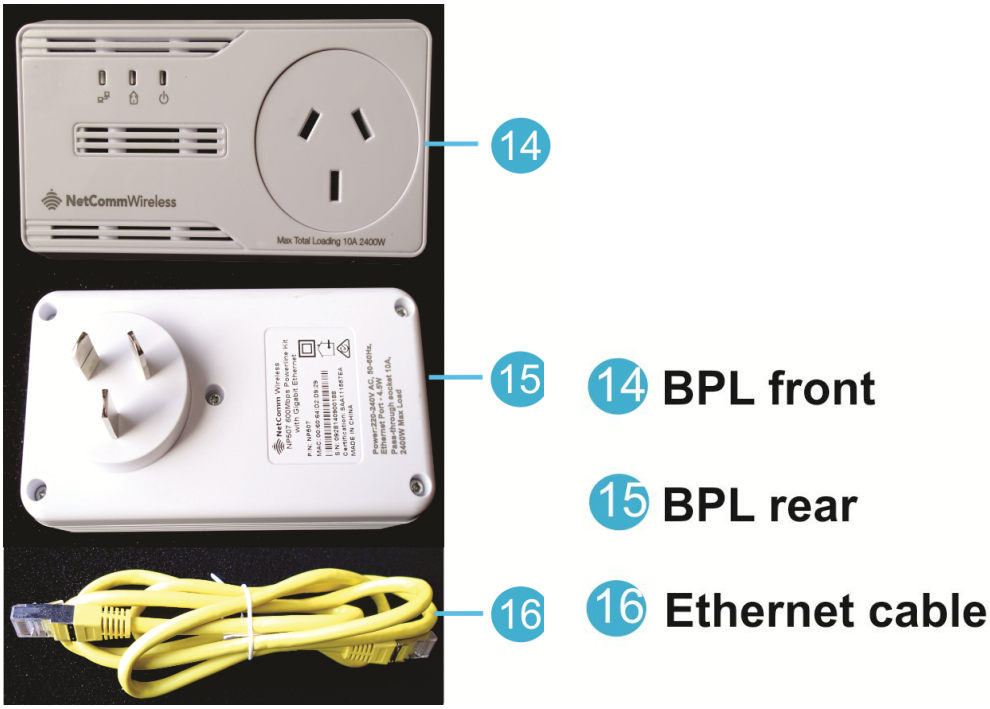
CuLink Unit with VGA & HDMI ports, 3.5mm earphone jack, S/PDIF fiber optic audio out port, Micro SD port, 2 x USB 2.0 ports, mini USB OTG service port, 3 x Ethernet ports, and built in WiFi and Bluetooth connectivity.

A/C power cord
External Optical USB mouse (Item 11, below)
External VGA cable (Item 12, below)
External HDMI cable (Item 13, below)




11 **USB mouse**
12 **VGA cable**
13 **HDMI cable**

- A free BPL Kit is provided as a limited time offer (Items 14-16, below)




The CuLink is your solution to home connectivity! Built on a customized open Android 4.2.2 Jellybean ROM platform. The innovative device has the functionality of a tablet along with Gigabit Ethernet data transfer rates and all the extras to make any home or business multi functional and enjoy the flexibility of multimedia on any screen which has a VGA or HDMI port. This complete manual is available on our website. www.vailstream.com.au

## 2. Set Up Instructions

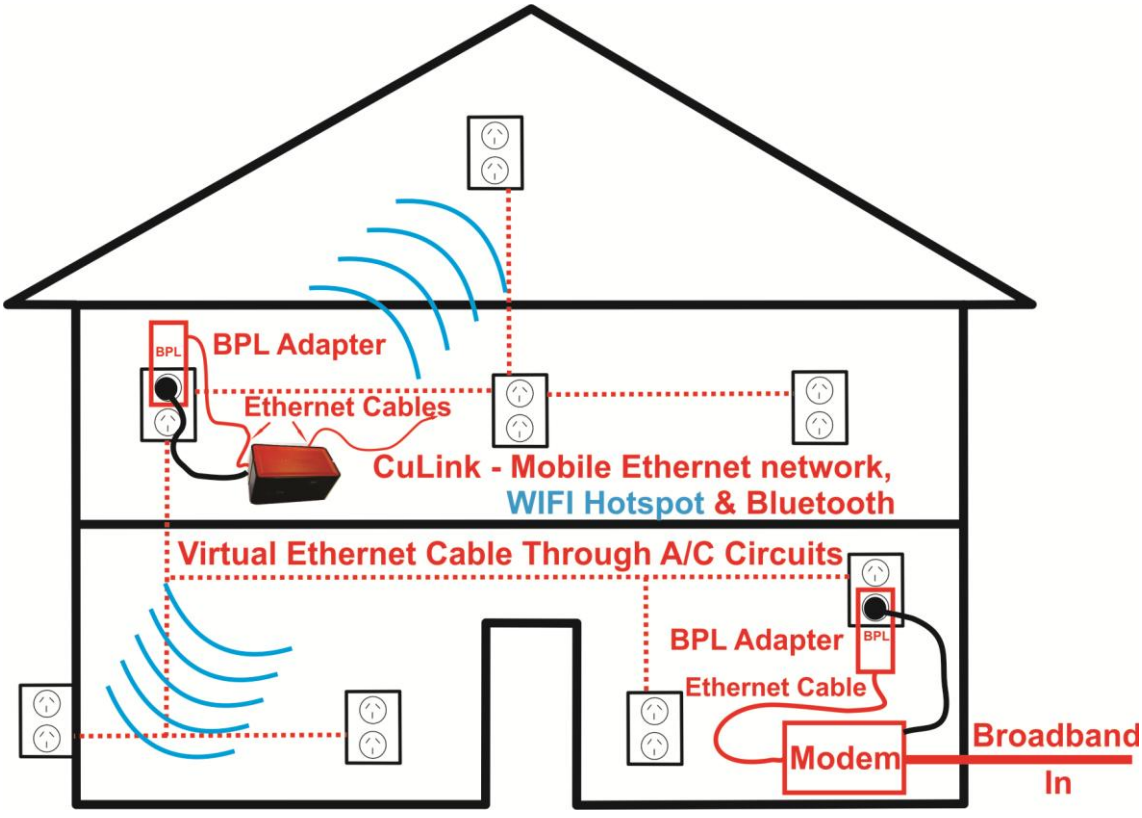
In order to experience the full range of applications available you will most likely connect to the internet through one of the units Ethernet ports. Utilizing a shielded Ethernet cable is advised in order to diminish any potential for interfering with radio and television reception.

If your CuLink came with a free pair of BPL outlets, utilizing them in conjunction with the CuLink can turn your entire house into a network hub. Smarten up any TV and provide a portable entertainment device with access to innumerable APP's for your Family.

The following set up guide provides instructions implementing the BPL devices. If you want to utilize your existing home network connect the CuLink via Ethernet cable and begin with the setup at Step 3. (Refer to Section 2 pg.10) Alternately, if you have a Wi-Fi router you can access the internet through the CuLink's Wi-Fi receiver. (Refer to Section 5 , pg.42)

The CuLink has been tested for compatibility with the following Broadband over Power Line Communication devices (BPL's) which may be used in conjunction with the CuLink;

- Dlink
- Netcomm
- Netgear
- TP-Link




Typical set up shown above utilizing two BPL's and the CuLink.

If using VGA for video, the audio out 3.5mm earphone jack or S/PDIF port can be utilized for sound. HDMI transfers sound as well as video and HDMI overrides VGA in source selection.

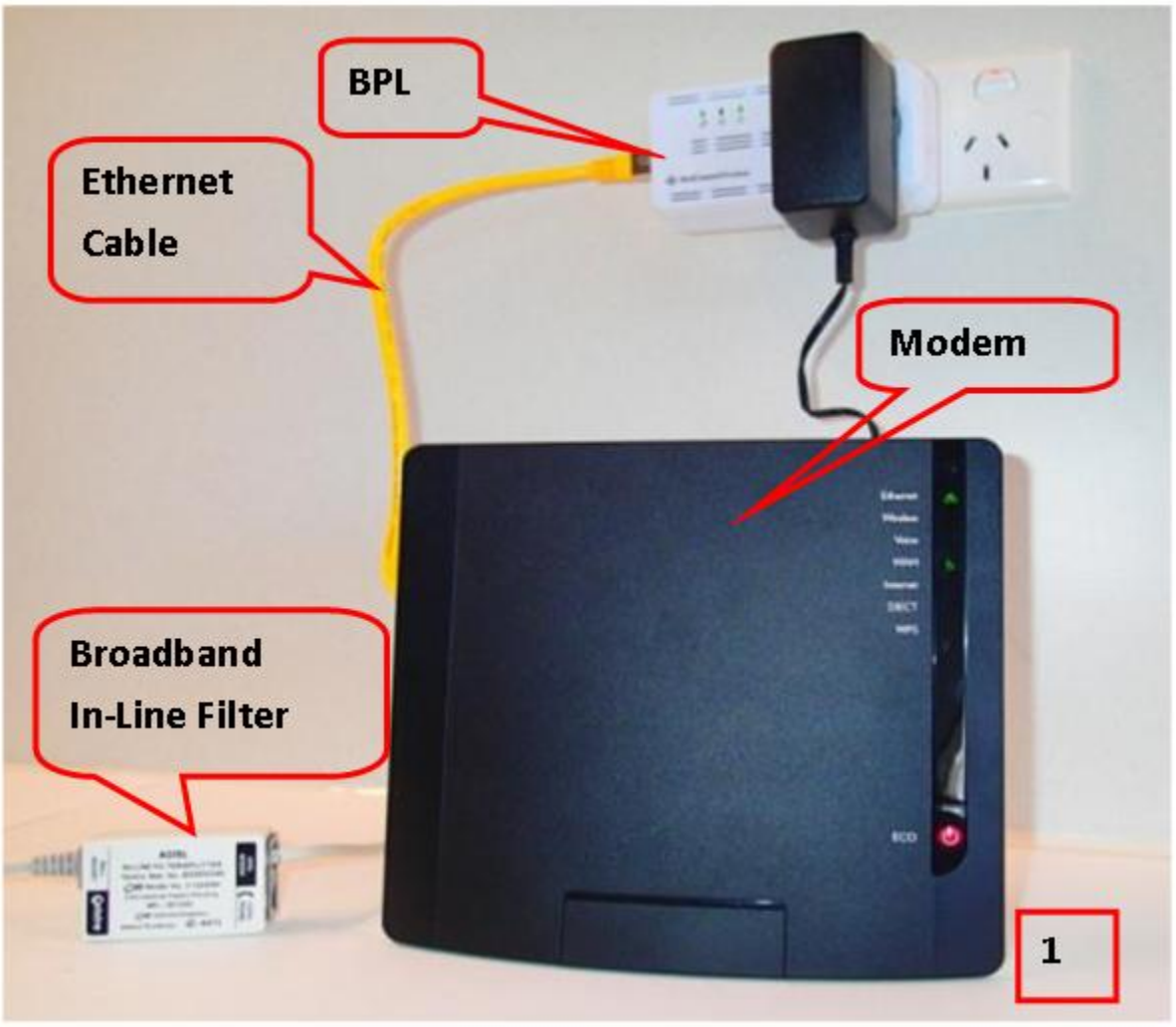
Utilize the additional USB ports to connect a Web Cam, keyboard, or transfer camera and phone data.

## Safety Precautions

This device is for indoor use only. Do not submerge or expose to excessive moisture. Use only as directed.

## Step By Step Set Up Guide

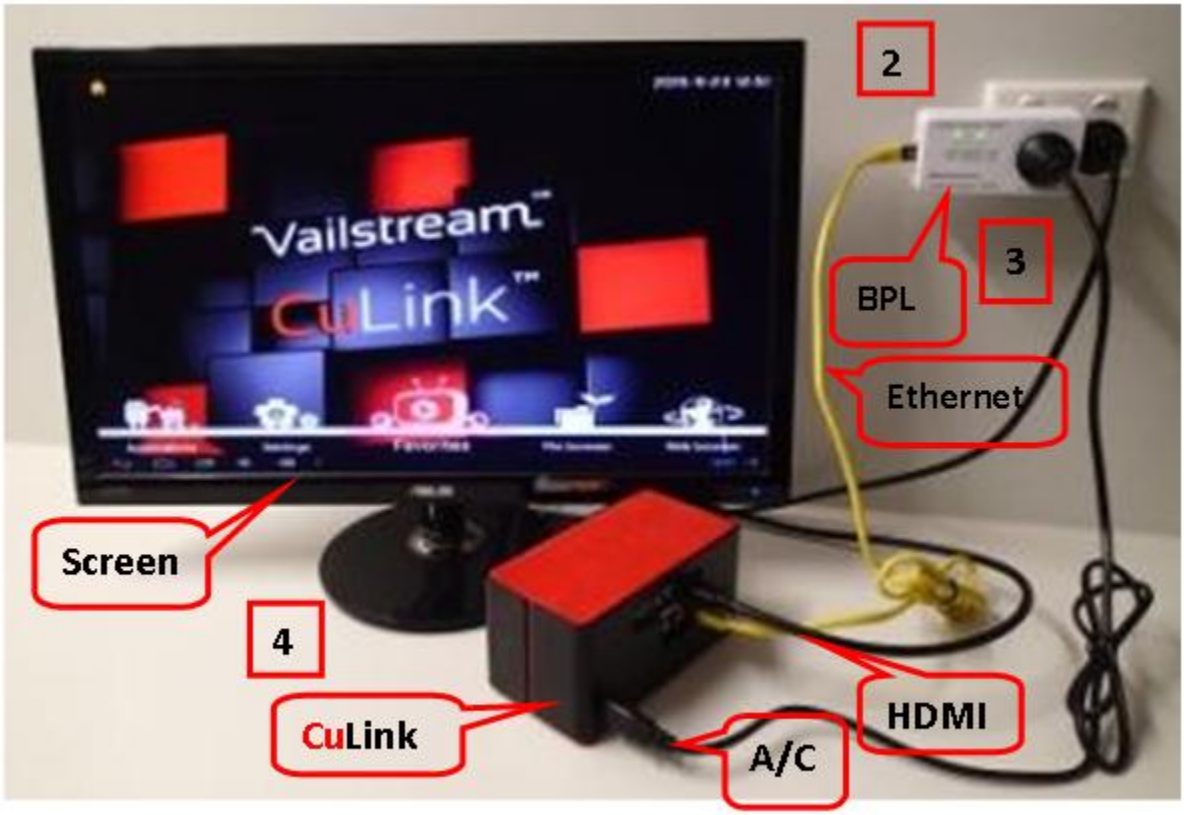
1. Ensure that your (Broadband over Power Line) BPL adapter is plugged directly to an A/C wall outlet, do not use a power bar. Connect the BPL to your modem via a shielded Ethernet cable. Power your modem through the BPL adapter A/C outlet.




2. Plug in your second BPL in the room you want to connect your CuLink in and connect a shielded Ethernet cable between the BPL and one of the the CuLink's three Ethernet Ports. Pair the BPL's as per manufacturer's instructions.
3. If you are not utilizing a BPL system you can connect the Ethernet directly to your home network. Use the power cord to connect the A/C wall outlet to the CuLink. Your CuLink will function with 100-240 Volts A/C at either 50 or

60 Hz therefore functioning with most countries electrical supplies.

4. Connect the CuLink to any screen with VGA or HDMI inputs using either of the enclosed video cables, VGA or HDMI. If using VGA for video, the audio out 3.5mm earphone jack or S/PDIF (Sony/Phillips Digital Interface Format) port can be utilized for sound, HDMI overrides VGA in source selection. (Refer to CuLink rear view Section 1 pg.4)



5. Connect the included USB mouse to a USB 2.0 port. Vailstream recommends that you utilize a wireless USB mouse/keyboard combo for convenience and to reduce any chance of radio interference. A keyboard will be required to access all of the CuLink's full functionality. Compatible products tested include Logitech, Gigabyte, Microsoft and numerous other devices that will connect through WiFi or Bluetooth.
6. The CuLink will take a couple of minutes to boot up to the home page, use the mouse to left click on the settings icon to get started.

# 3.System Navigation

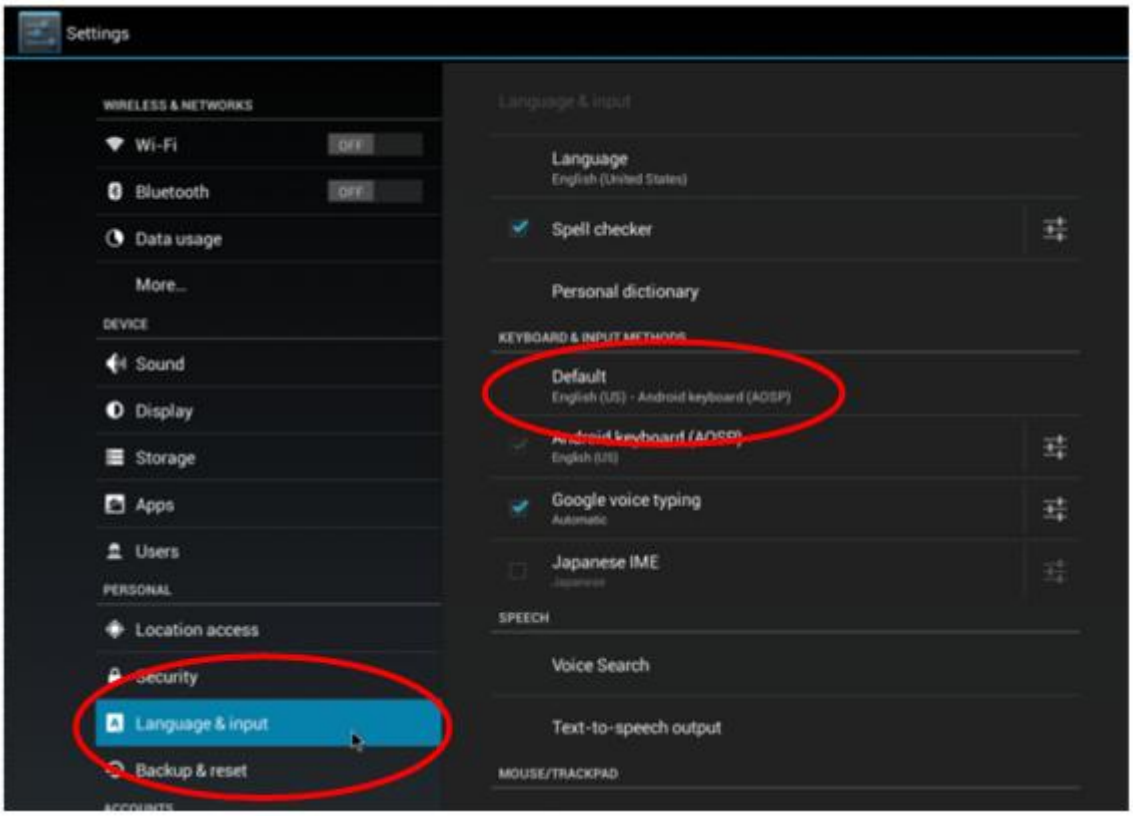
## Home Page

In order to start enjoying your CuLink you'll need to be familiar with a few basic navigation techniques of the system.

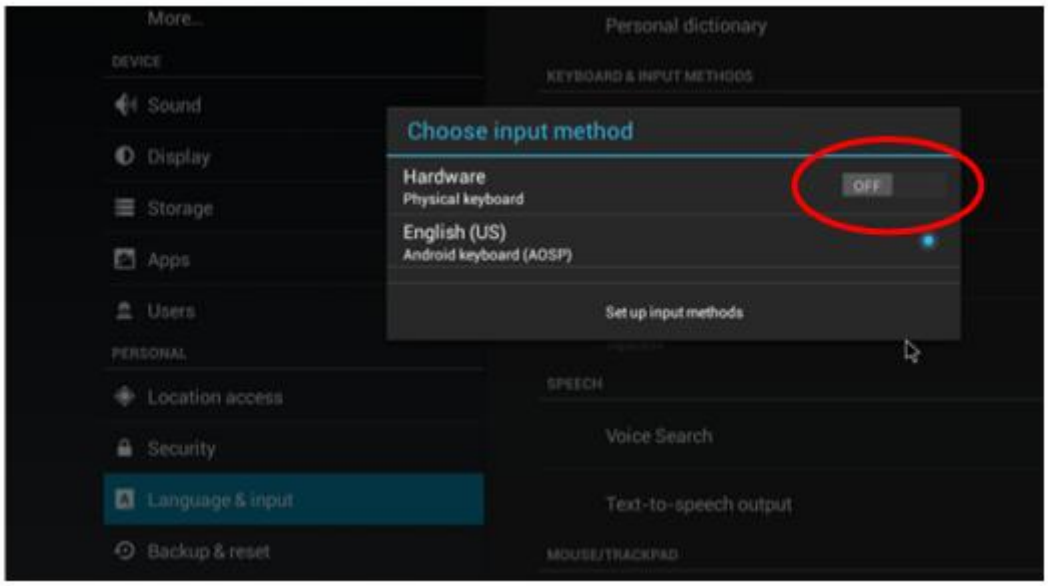
**Mouse** Right mouse button: Back
Left mouse button: Select
Middle mouse button: Menu

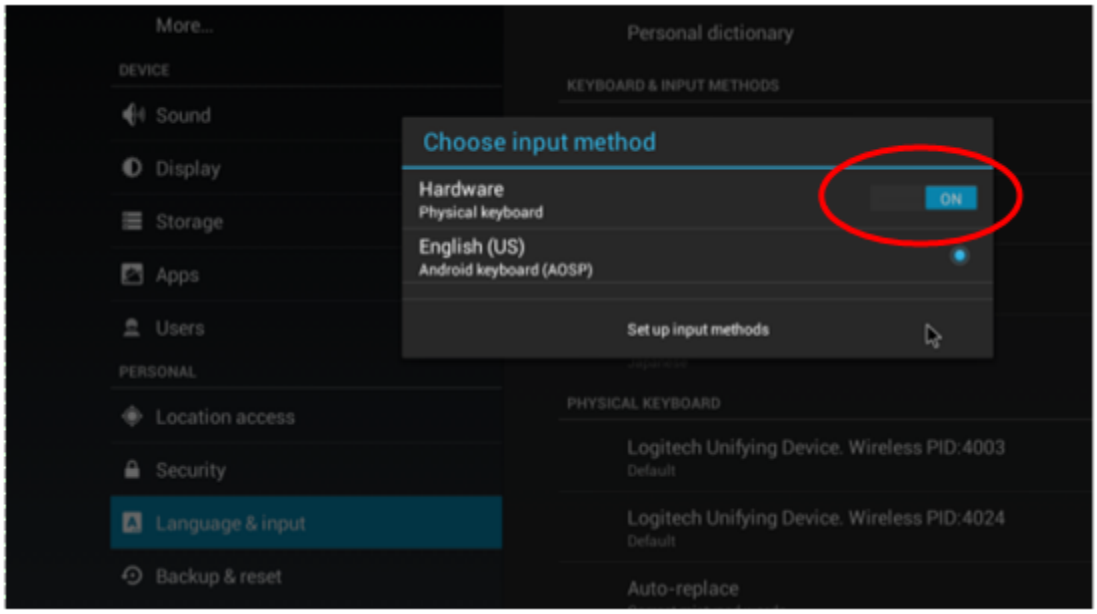
**Keyboard** The CuLink has a built in virtual keyboard but will also will function using a USB wired or wireless keyboard. You can disable the virtual keyboard by left clicking on "Settings" first.

Then left click "Language & input" and left click on "Default" (Under Keyboard &Input Methods).

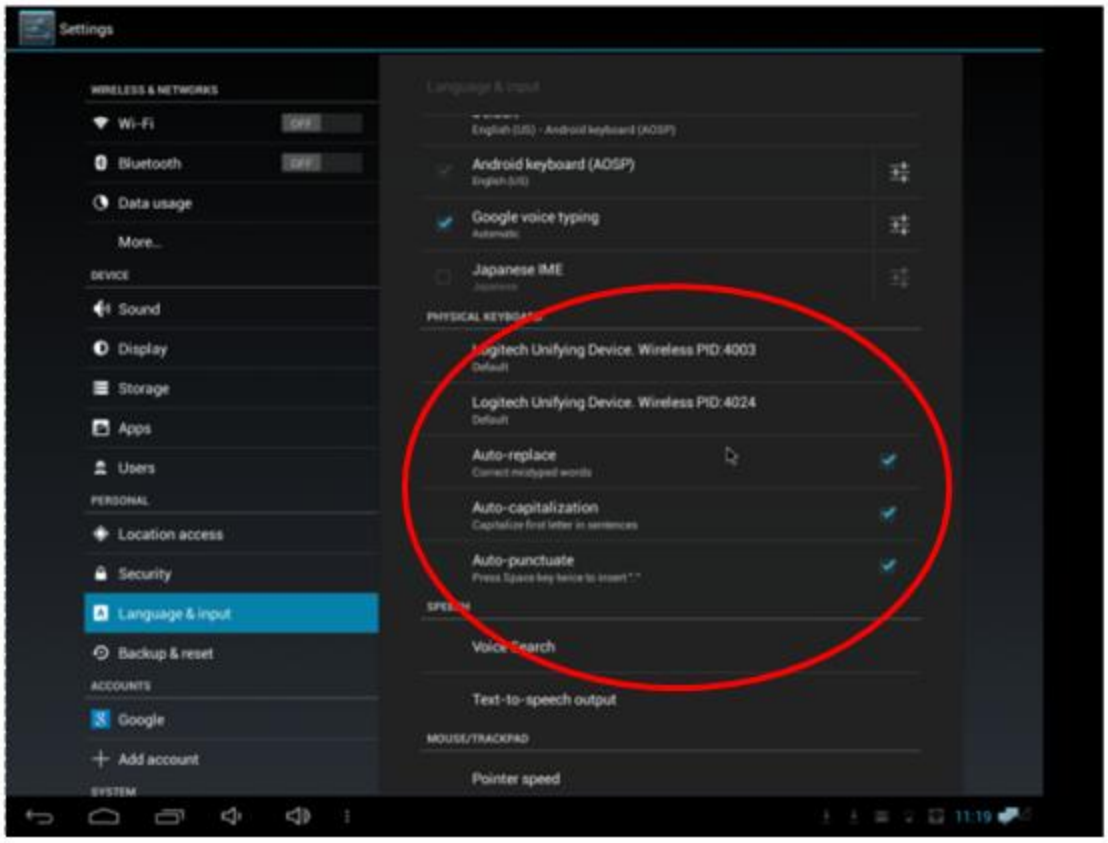



Left click on the "OFF" switch to toggle physical keyboard on/off and disable/enable the virtual keyboard.

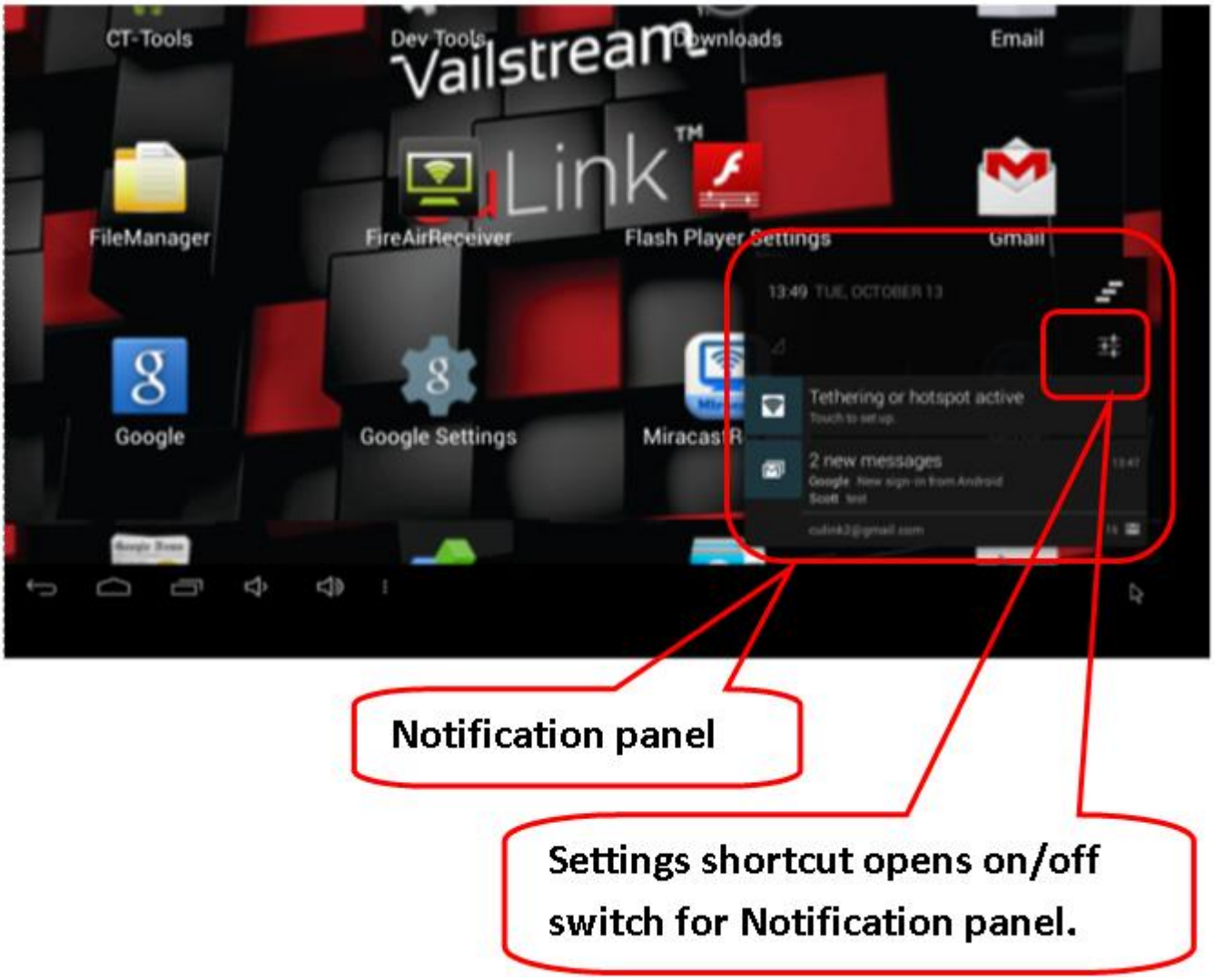





Switching "ON" the physical keyboard will bring up setting options for your selected keyboard.



Left clicking on the "Status bar" opens the "Notifications" panel.




## System Bar

- Back
- Home - Return to home page
- Open App's/pages - Allows you to swipe to close
- Volume down
- Volume up
- Settings

## Status Bar

WiFi

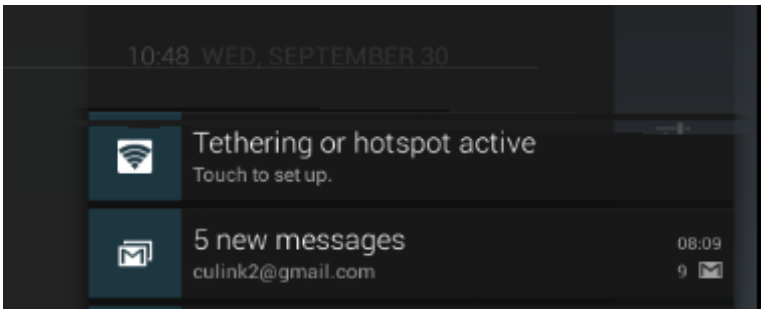
Time

Ethernet connection

Mobile signal strength (Not applicable)

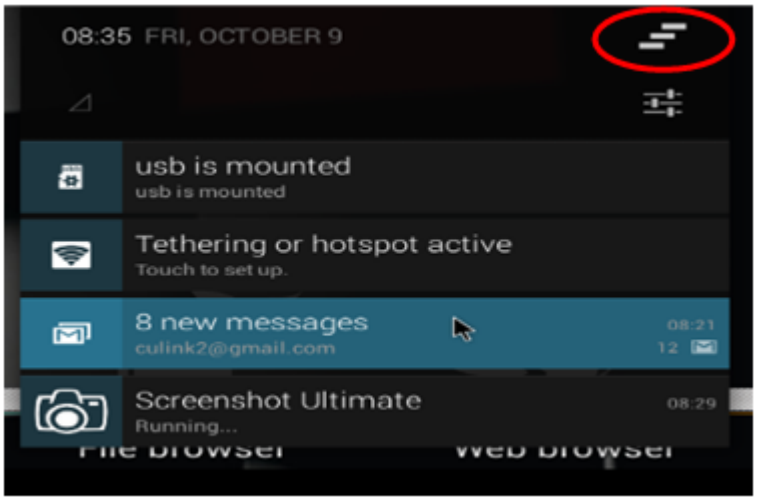
## Notification Panel

Left clicking on the status bar will open the notification panel showing emails received, downloads and progress, etc..



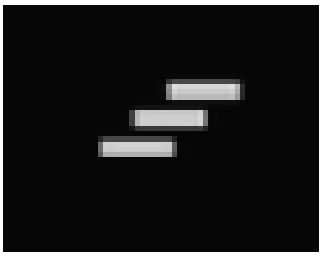

## To clear a notification

Hold the left mouse button on a notification and slide the mouse to left of the screen.



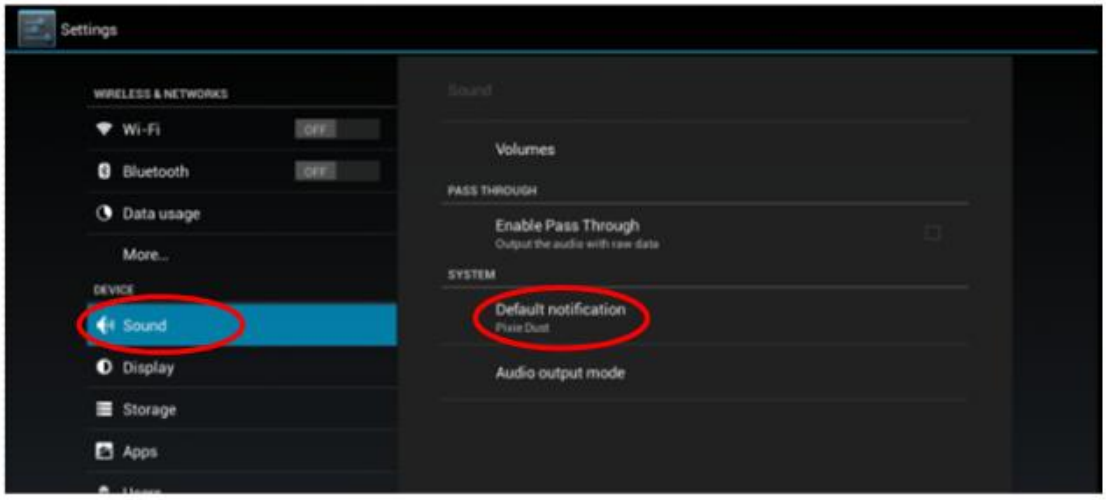

## To clear the all notifications

Use the left mouse button to click the Clear All Notification Icon located on the top right of the Notification box.

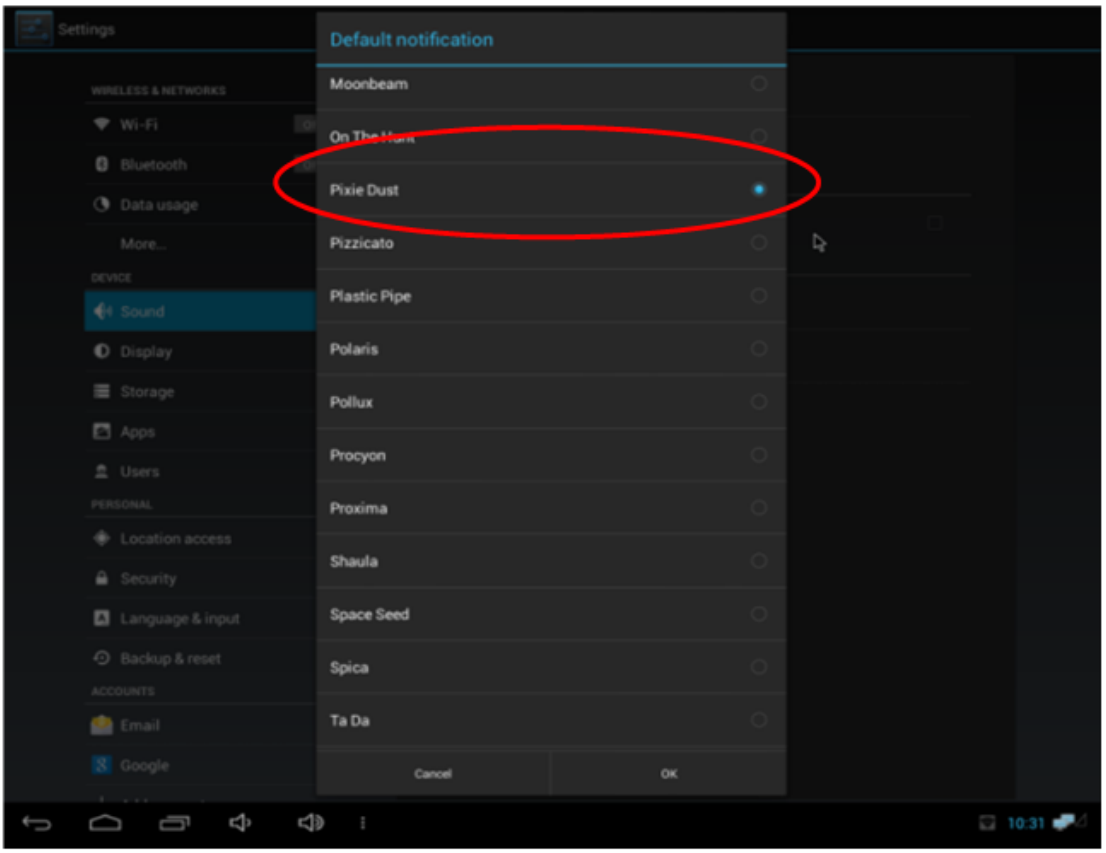


## To adjust notification sound settings

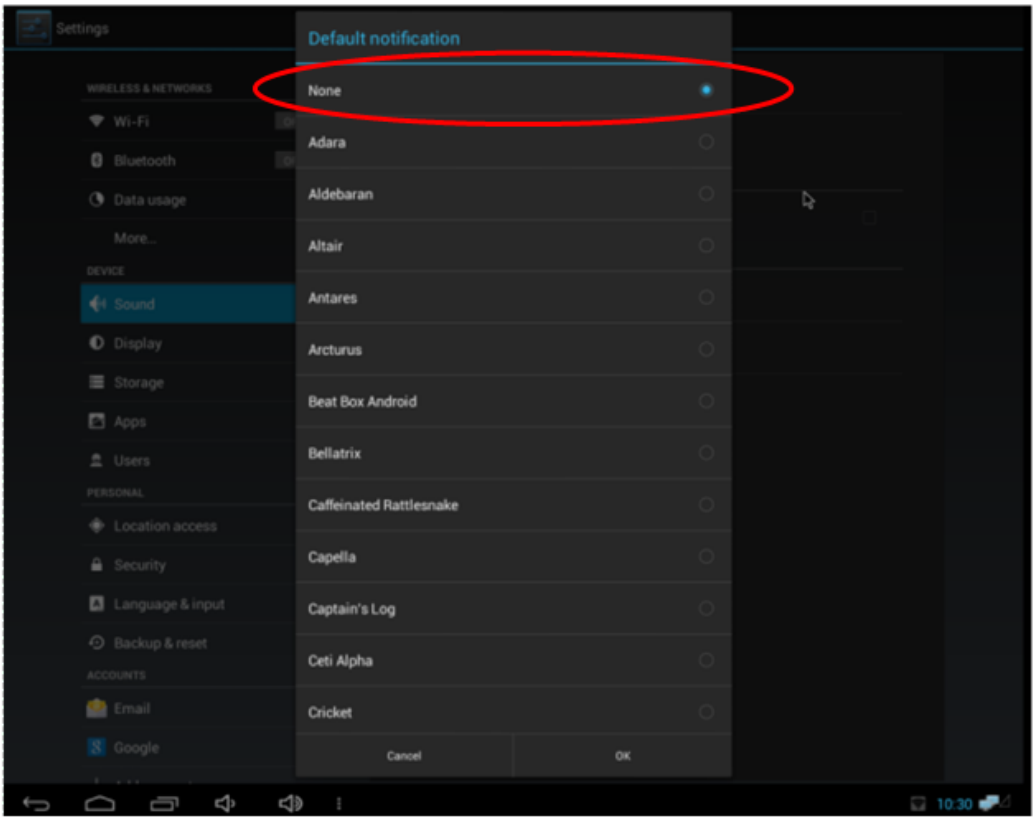
First left click on Settings. Then left click on Sound and left click on Default notification.



Select a sound, "Pixie Dust" is the default setting.



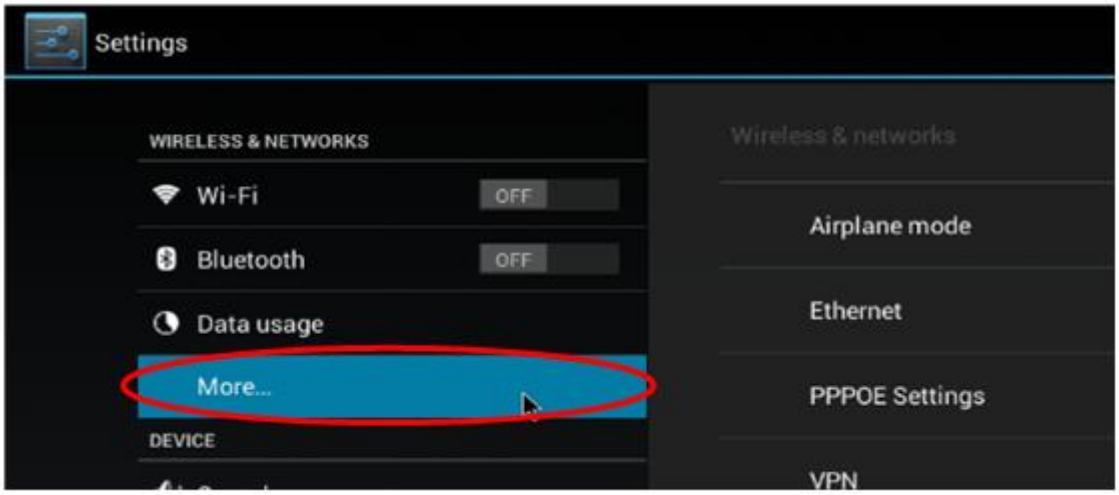

Or select "None".



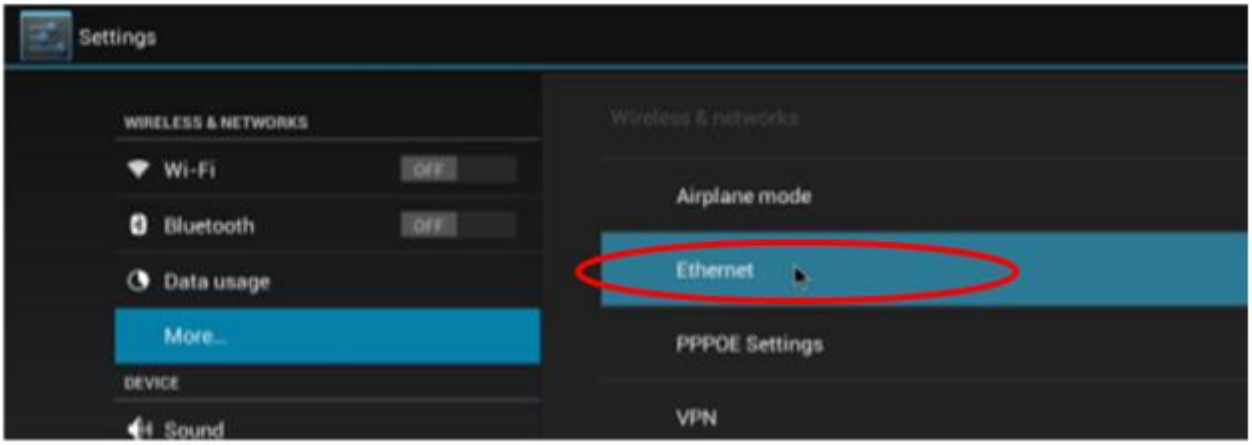
# Connecting to the Internet

Now that you are familiar with the Home Page it's time to connect your CuLink to the internet.

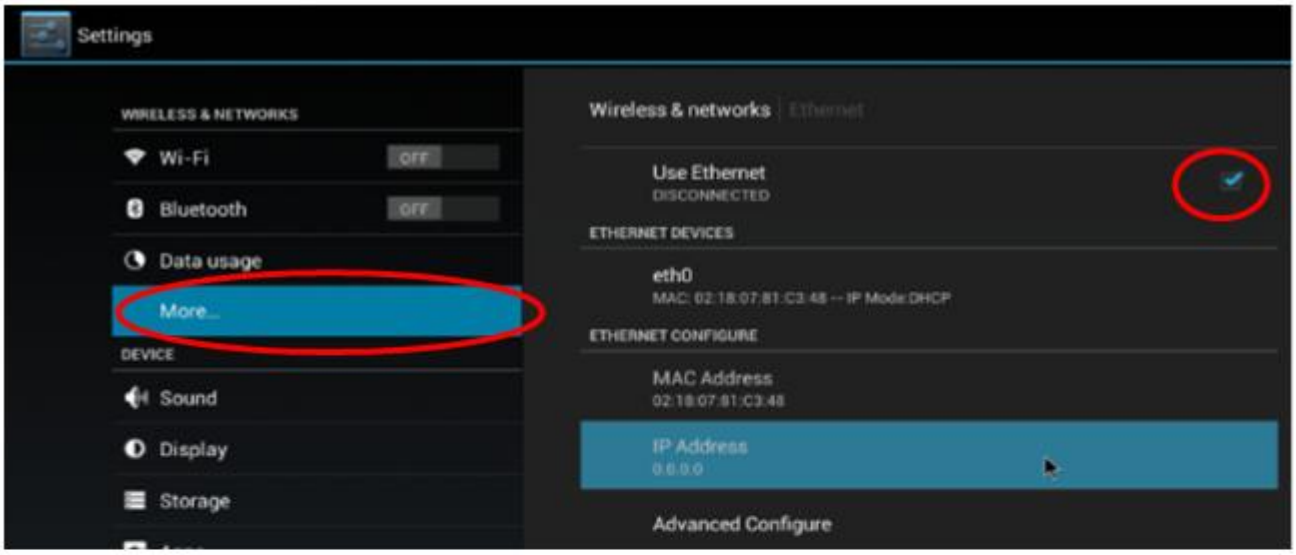
Still in the "Settings" section, left click on the “More…” at the bottom of the "Wireless & Networks" section.

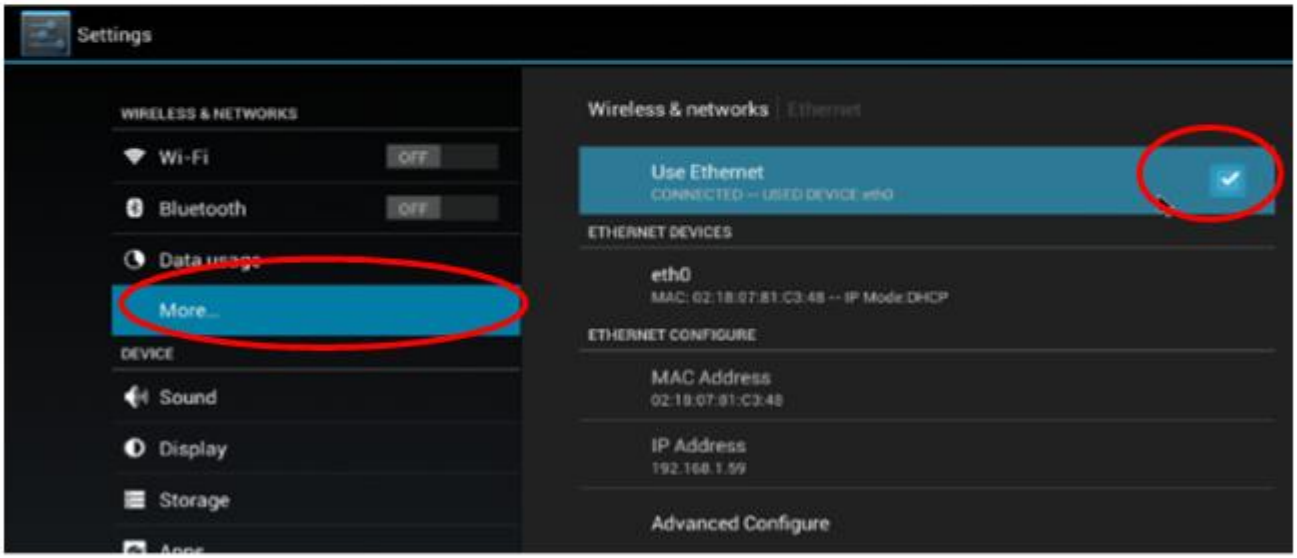



Left click on “Ethernet” and insure there is a check mark in the “Use Ethernet” box. This should bring up a  valid “IP Address” below Ethernet Configure.



If the "Use Ethernet" box is already ticked and there are Zeros, ie, 0.0.0.0 in the "IP Address", uncheck and recheck the "Use-Ethernet" box and wait a minute till a valid "IP Address" appears.

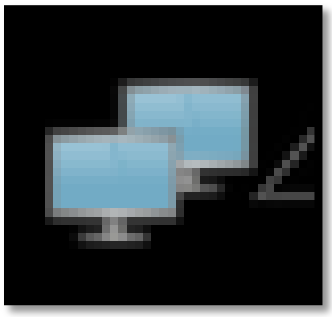


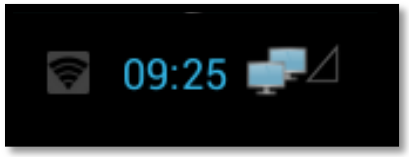




If a valid IP address does not appear you will need to “PAIR” your BPL's following the manufacturer's instructions, usually facilitated by a sequence of

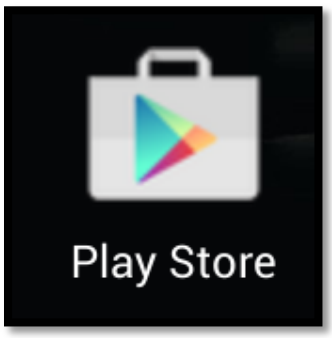
reset button pushing, or if you are not utilizing the BPL's check your internet connection.

Once your CuLink is connected to the internet the Ethernet connection icon will appear in the status bar.






Now you are ready to enjoy your CuLink! Get ready to discover the Google Play Store and the multitude of Applications (App's) available!

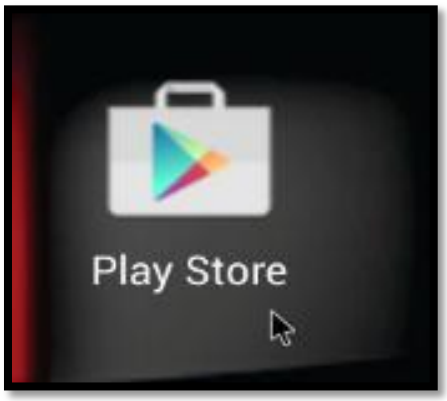


# 4. Play Store Marketplace and Applications

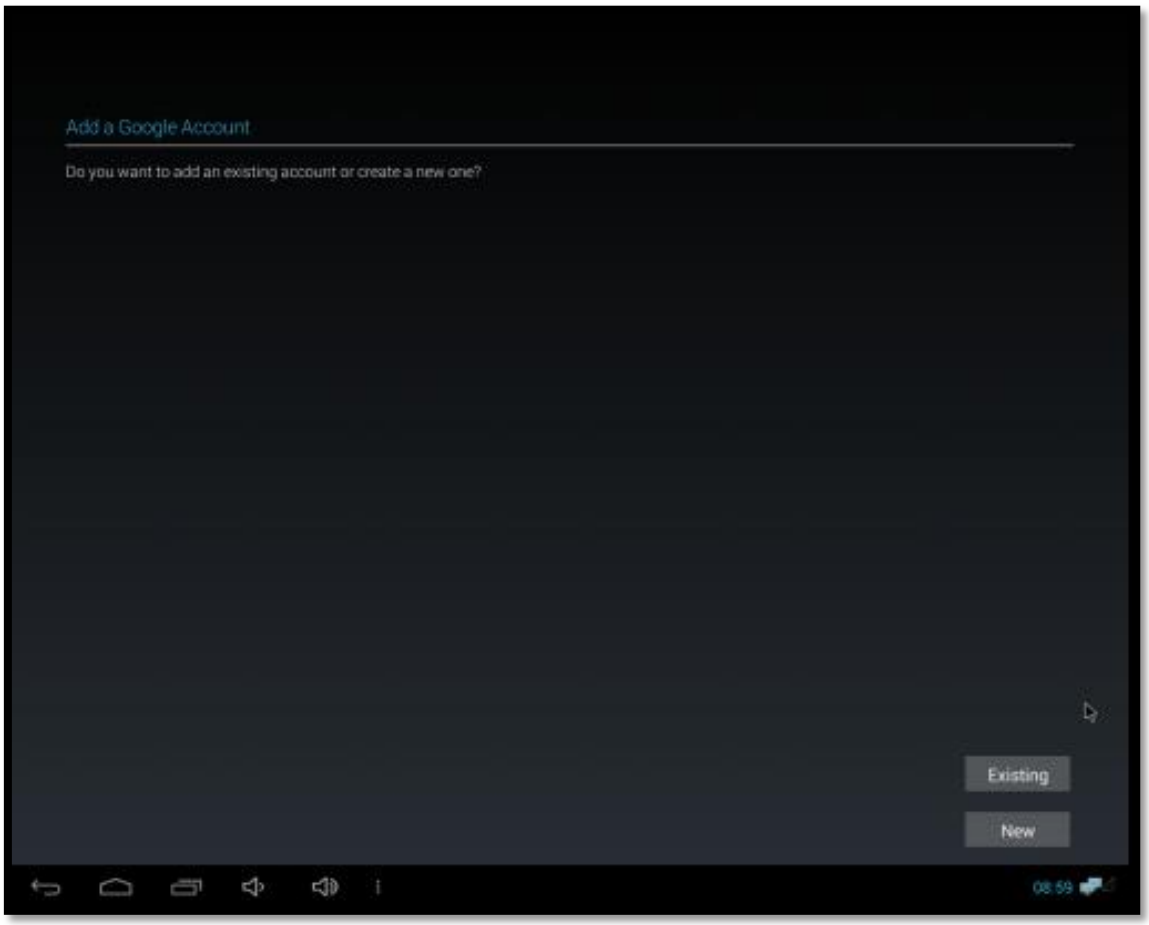
This is the section that make your CuLink such an exciting device. Left click on the "Applications" icon on the home page.

CuLink comes preloaded with a handful of helpful App's.

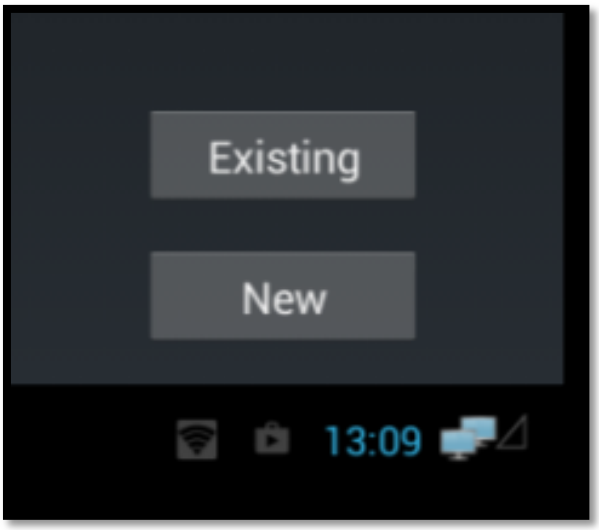
Look for the Play Store icon to shop for more App's, many free App's are also available.



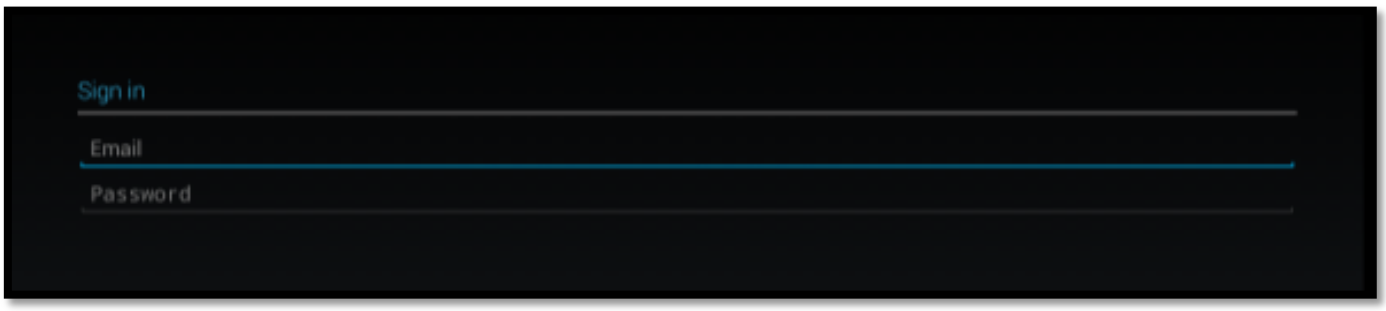
Left clicking on "Play Store" opens the following screen.



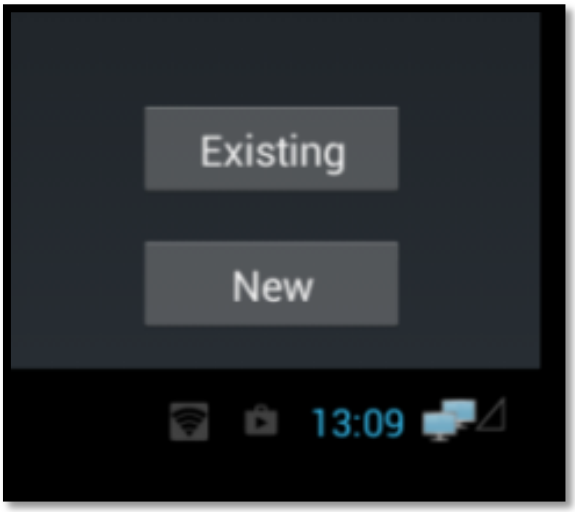

Play Store will prompt you to use an existing or open a new account.

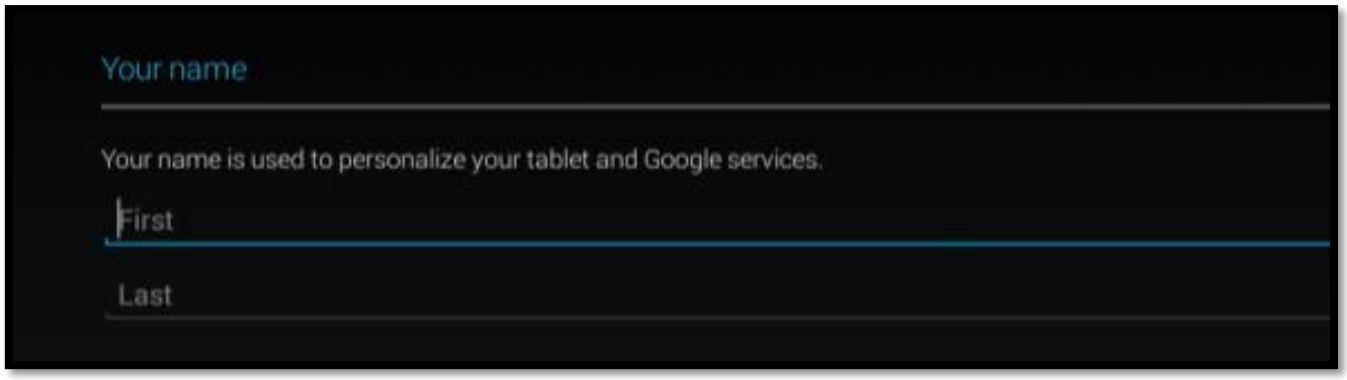


Selecting "Existing" will prompt you to enter your GMail address and password.

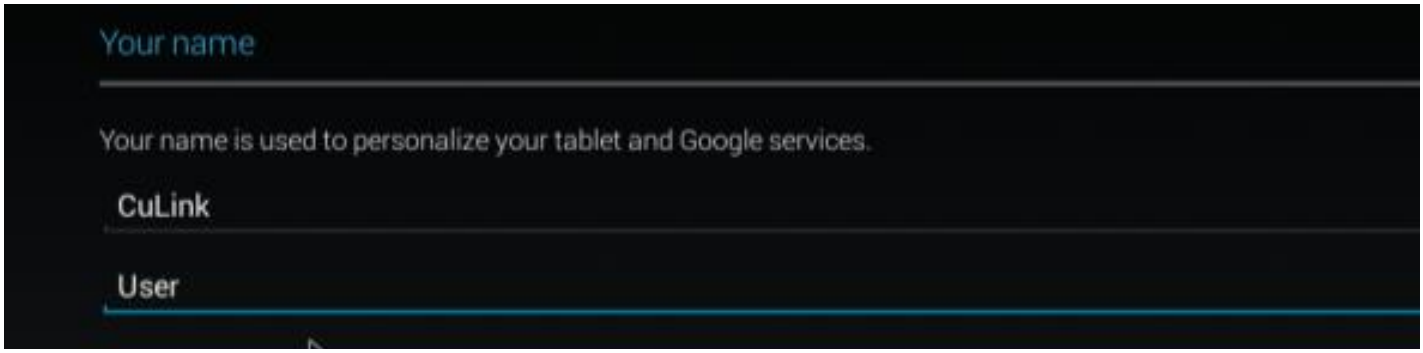



Selecting "New" will prompt you to open a Google account.



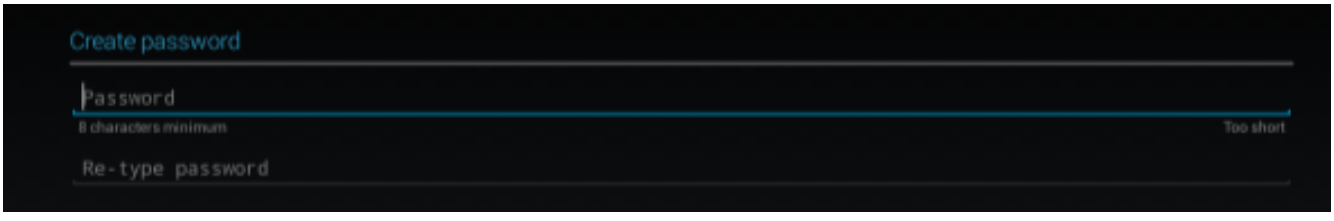



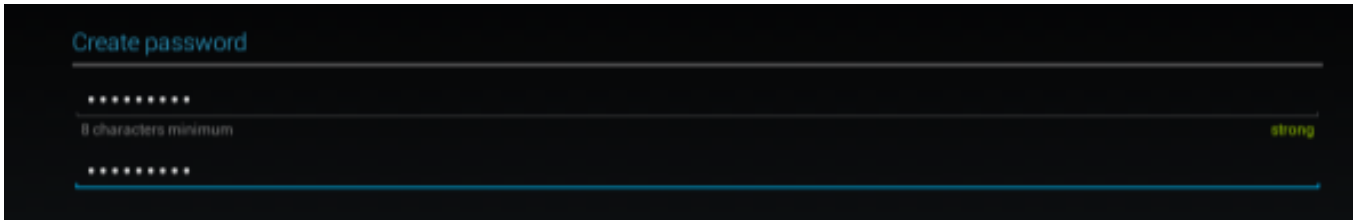
Enter your first and last name.



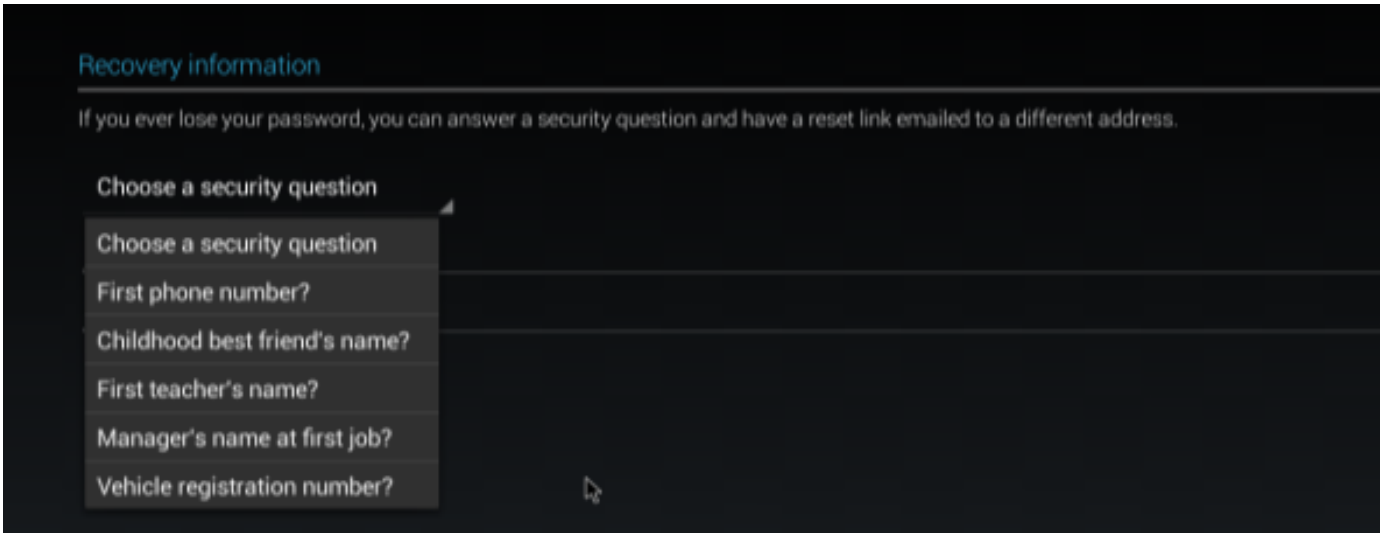

Choose your user name, (this will be your Google GMail account).

Create and confirm your password.

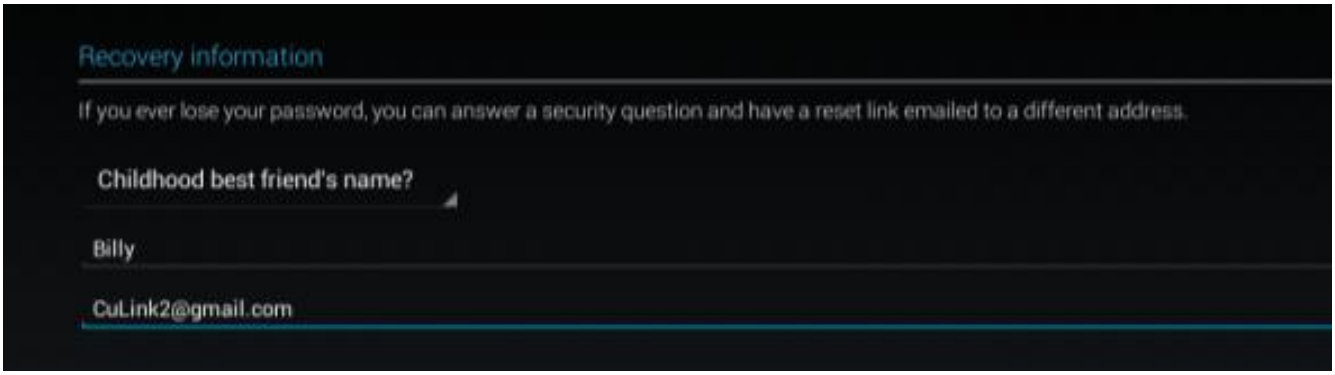


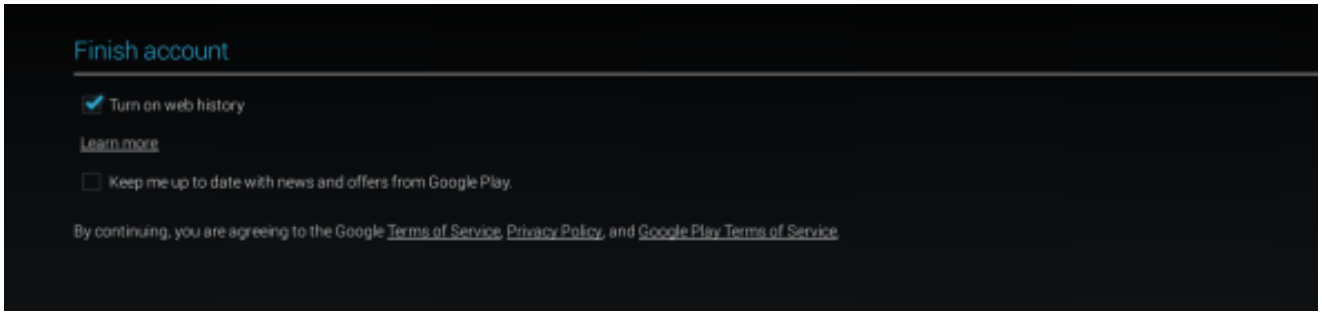
Choose a security question.


Recovery information
If you ever lose your password, you can answer a security question and have a reset link emailed to a different address.
Choose a security question
Choose a security question
First phone number?
Childhood best friend's name?
First teacher's name?
Manager's name at first job?
Vehicle registration number?

Input your security question answer and enter an alternate recovery email.

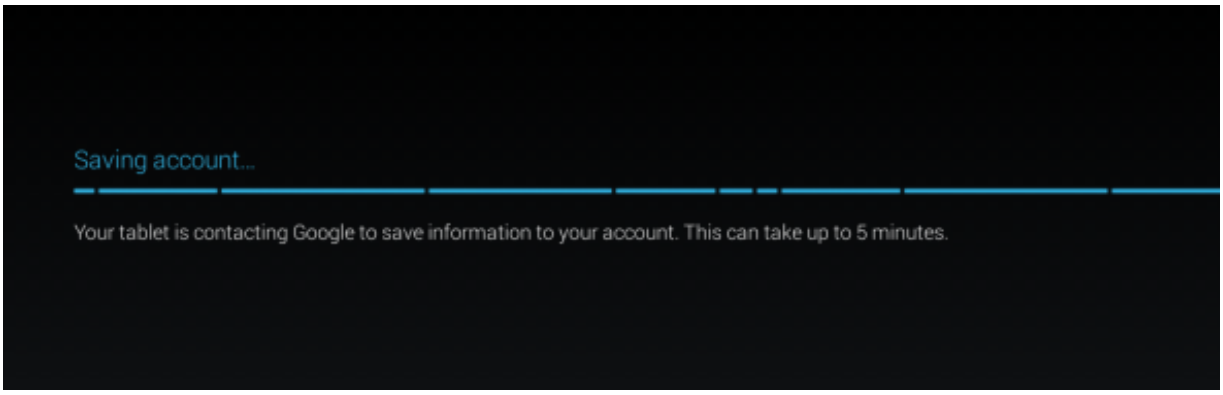

Recovery information
If you ever lose your password, you can answer a security question and have a reset link emailed to a different address.
Childhood best friend's name?
Billy
CuLink2@gmail.com

Agree to Google terms of service etc..

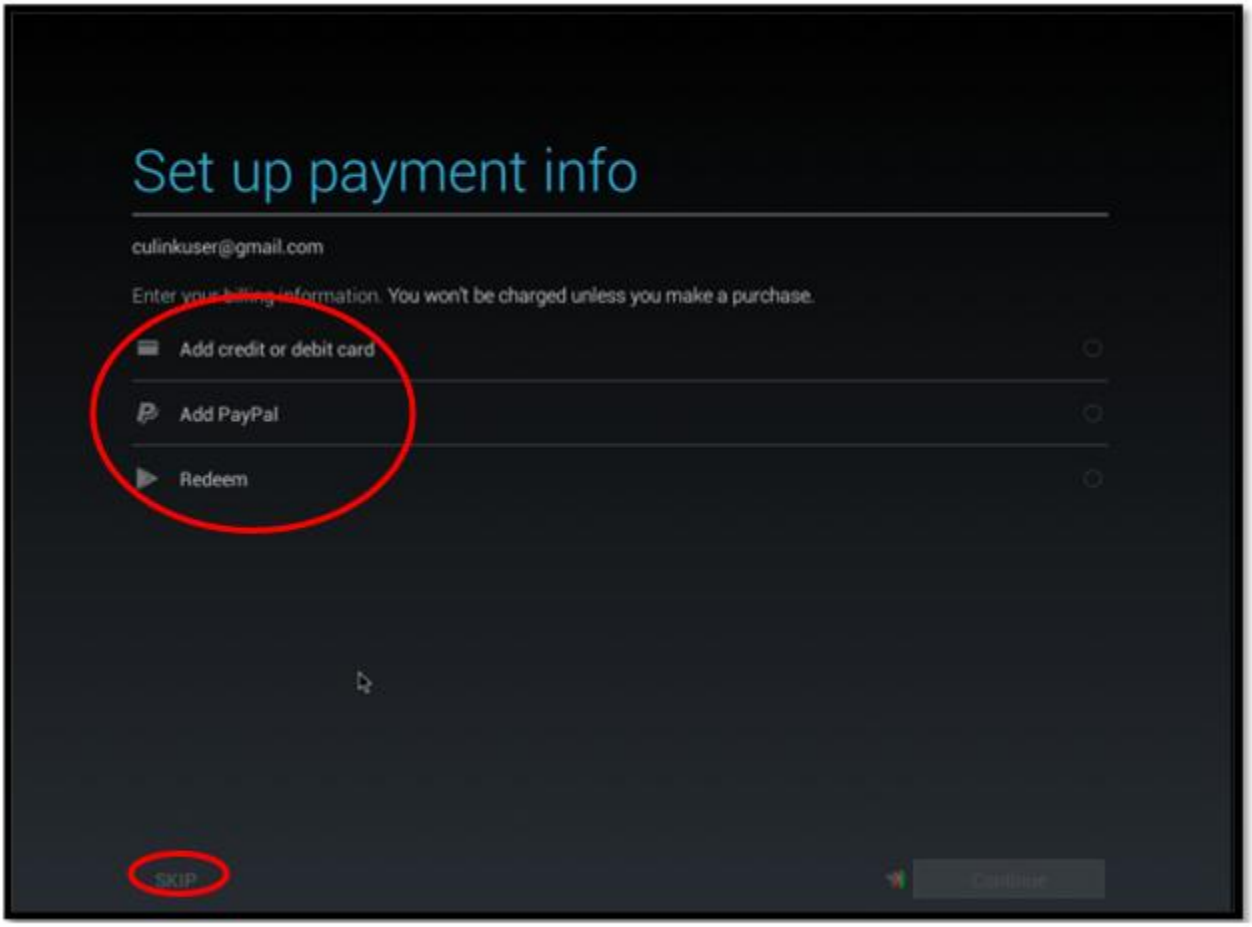

Finish account
Turn on web history
Learn more
Keep me up to date with news and offers from Google Play.
By continuing, you are agreeing to the Google Terms of Service, Privacy Policy, and Google Play Terms of Service

Complete the authentication puzzle.

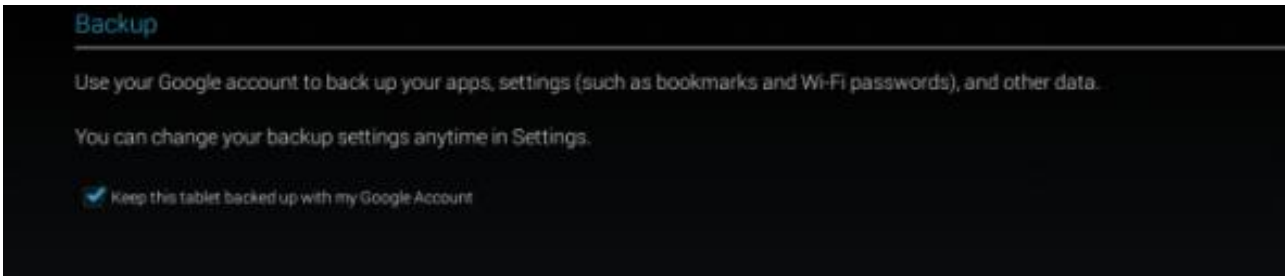
Account details will be saved.



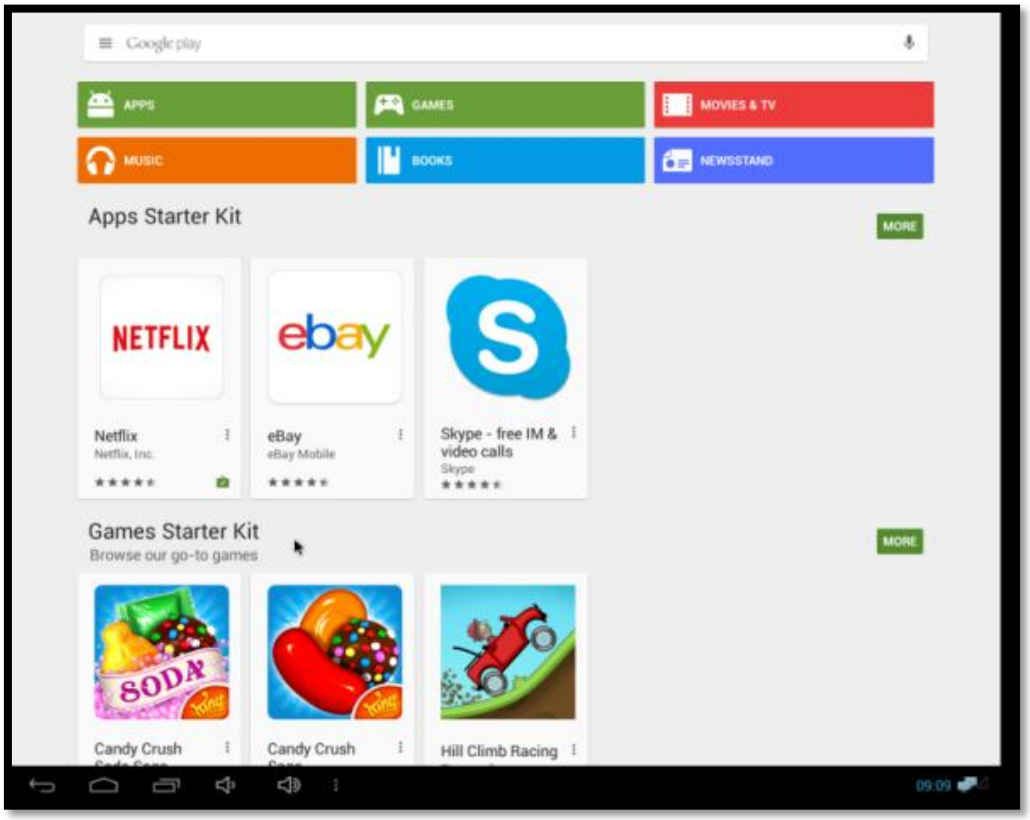

The next page will allow you to select a payment method for App and media purchases. You may utilize a credit or debit card, add a PayPal account or redeem a Google Play gift card. You can also skip this section and continue to the Play Store and still have access to a multitude of free App's.



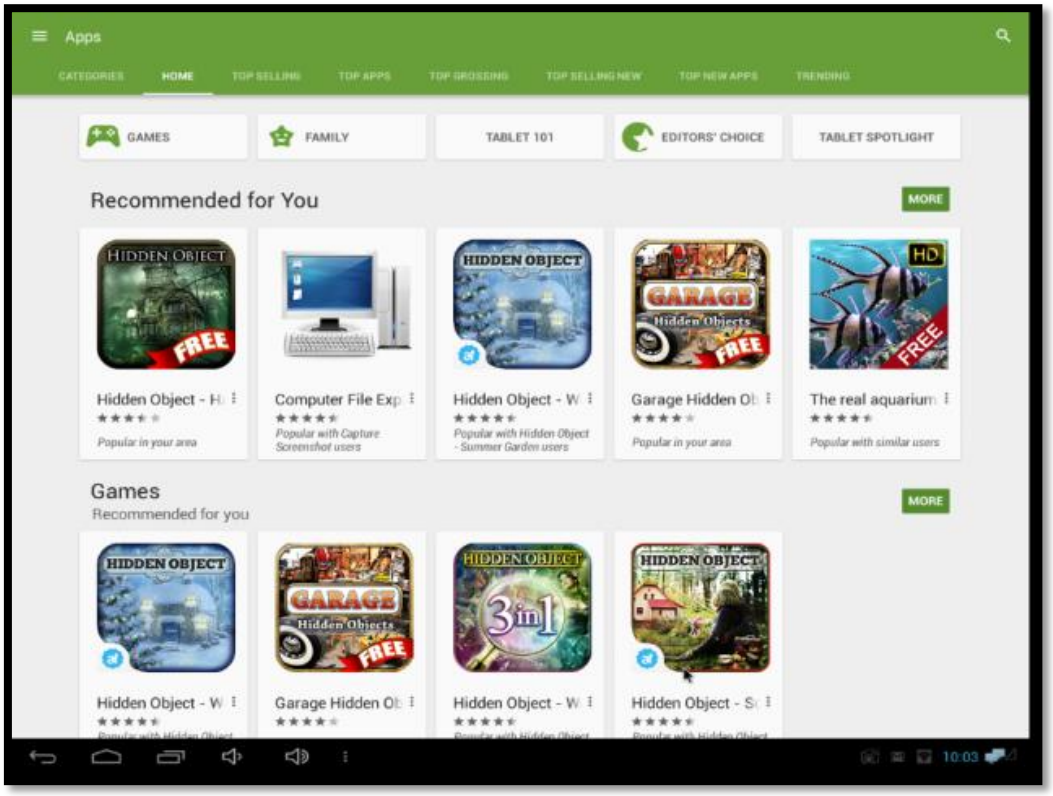

You will be prompted to back up your App's and settings etc. allocated with your Google account.


Backup
Use your Google account to back up your apps, settings (such as bookmarks and Wi-Fi passwords), and other data.
You can change your backup settings anytime in Settings.
Keep this tablet backed up with my Google Account

Welcome to the Google Play Store!

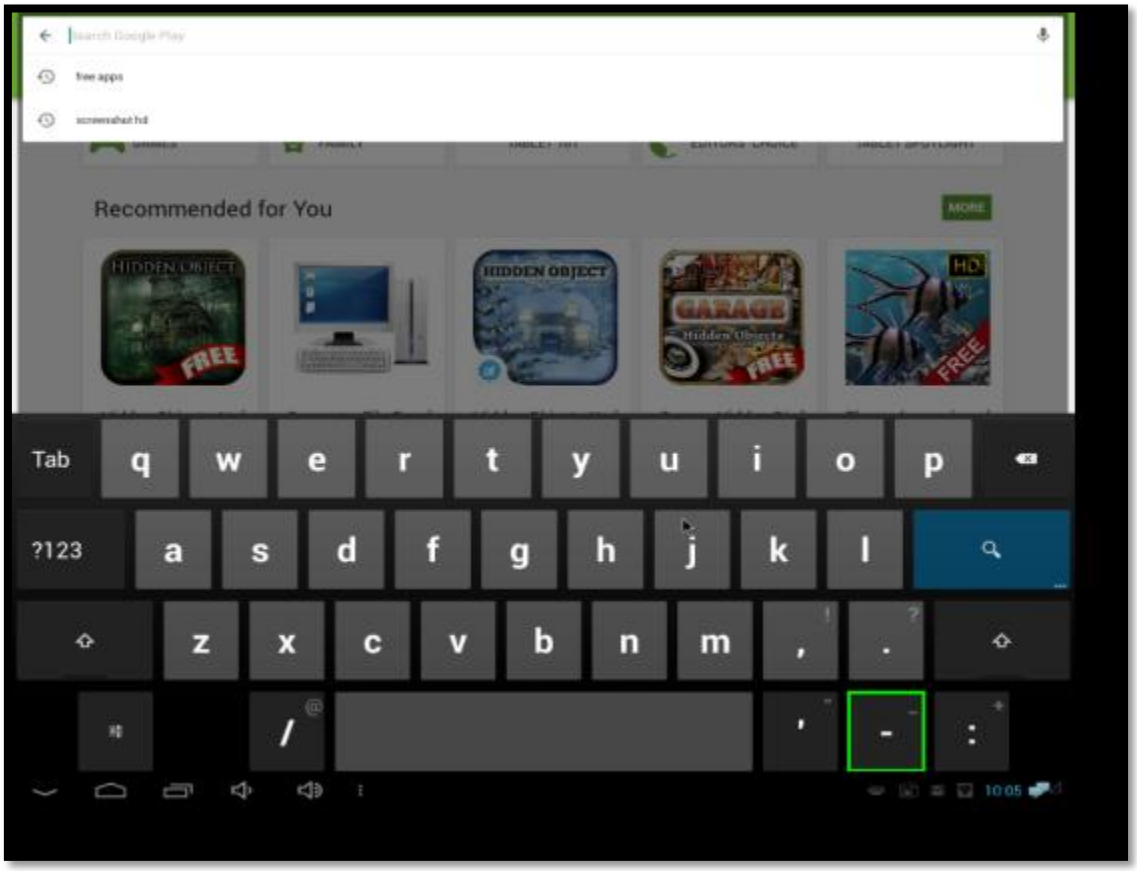



Left click on APPS to access.




Left click on the search icon.

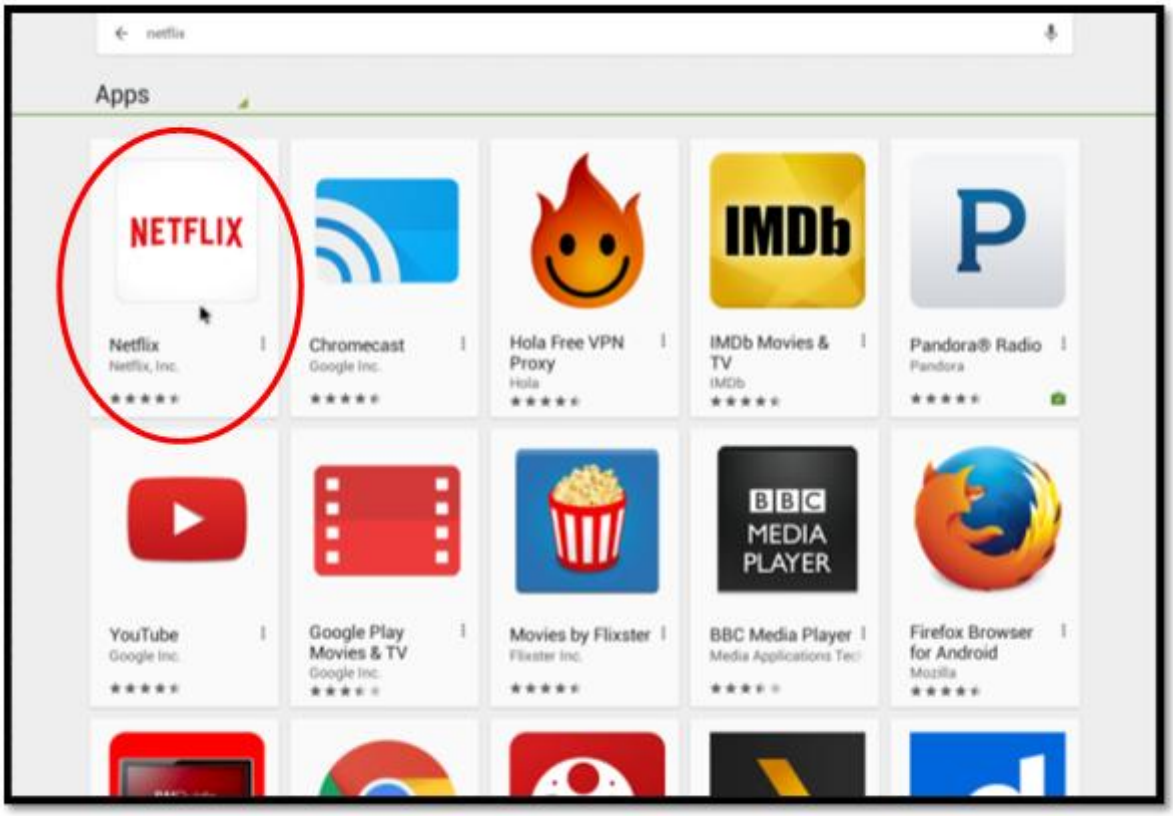
A virtual keyboard will open on your screen, or you may utilize your physical keyboard if attached.



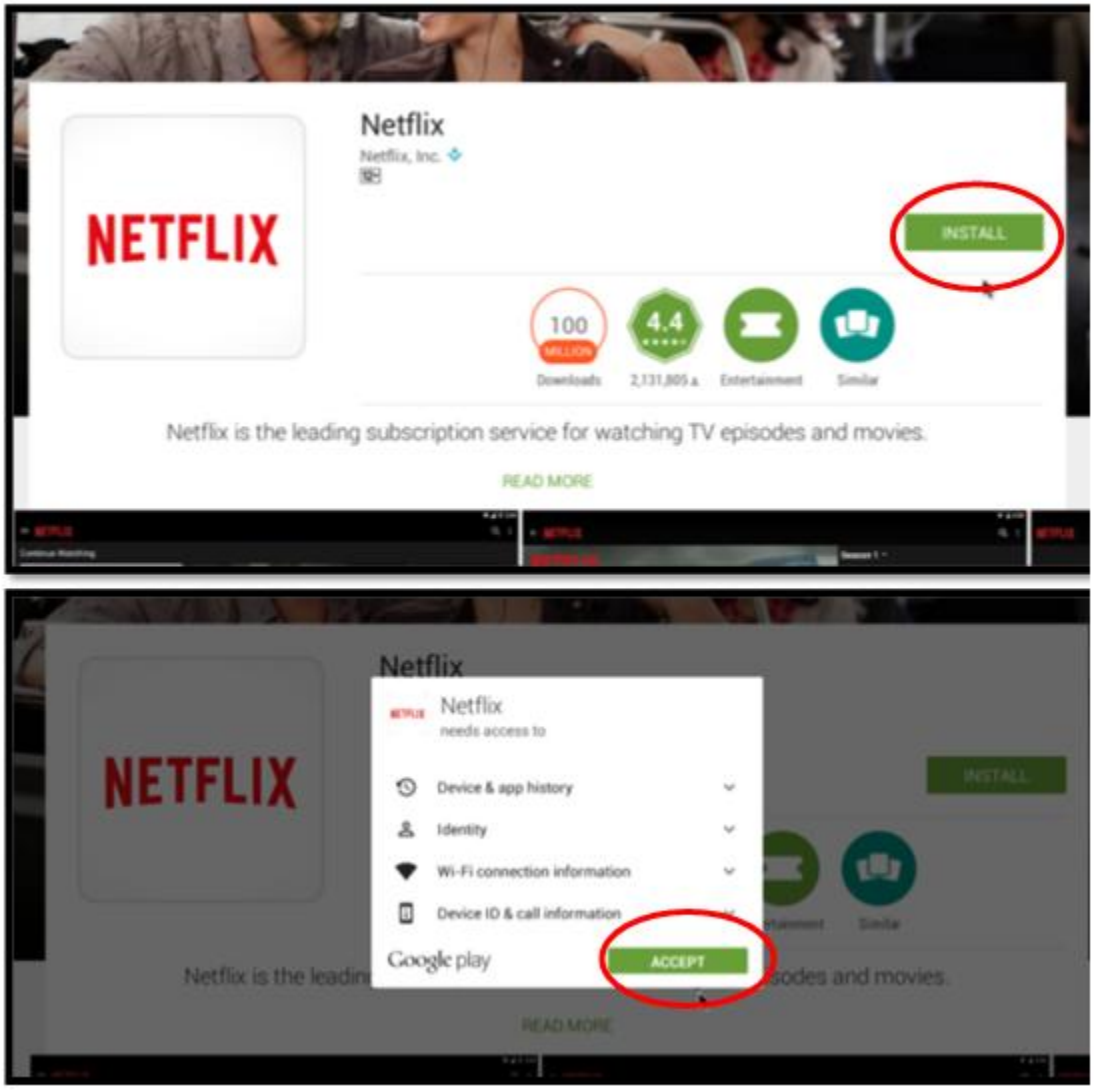

Search and select App's you wish to download. There are numerous free App's and for paid App's you can utilize a Google Play gift card, available at

numerous retailers, or alternate options are available such as credit card and PayPal.

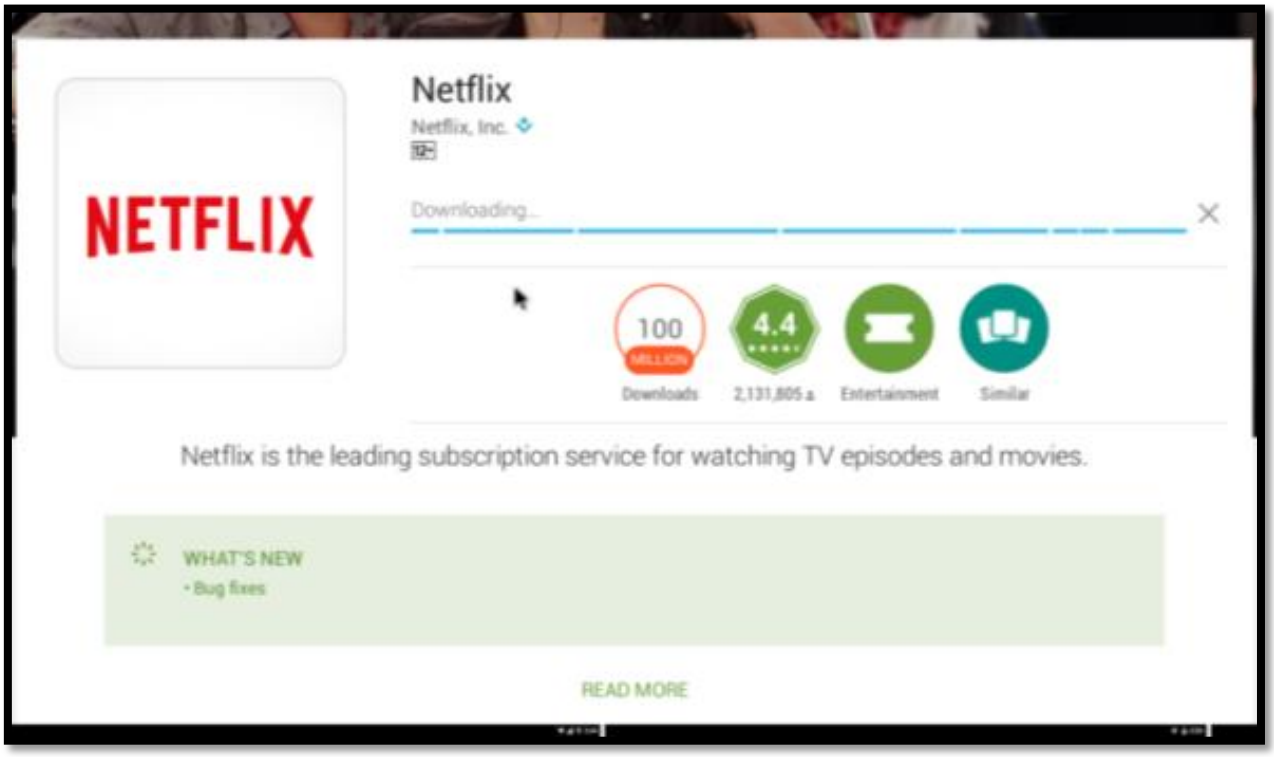
The following example details the downloading and installation of the Netflix Application. Search for and select Netflix App by left clicking with mouse or select with keyboard arrows and push enter.

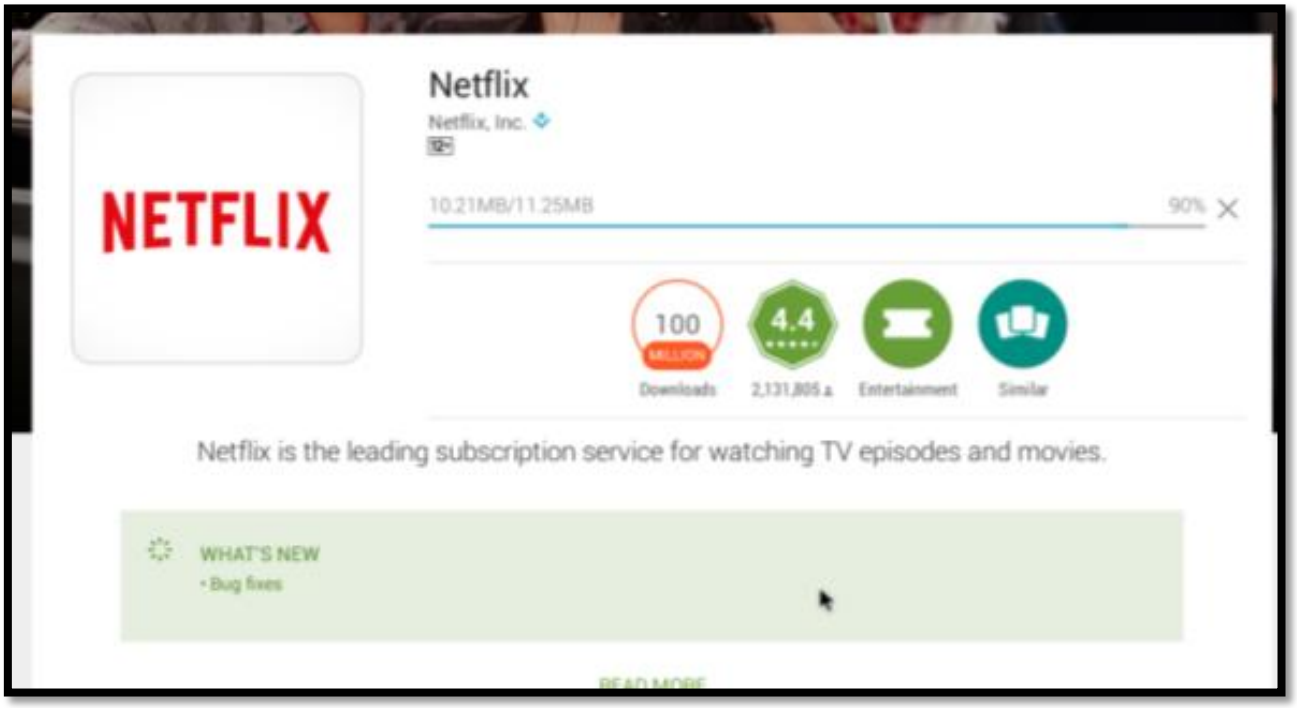


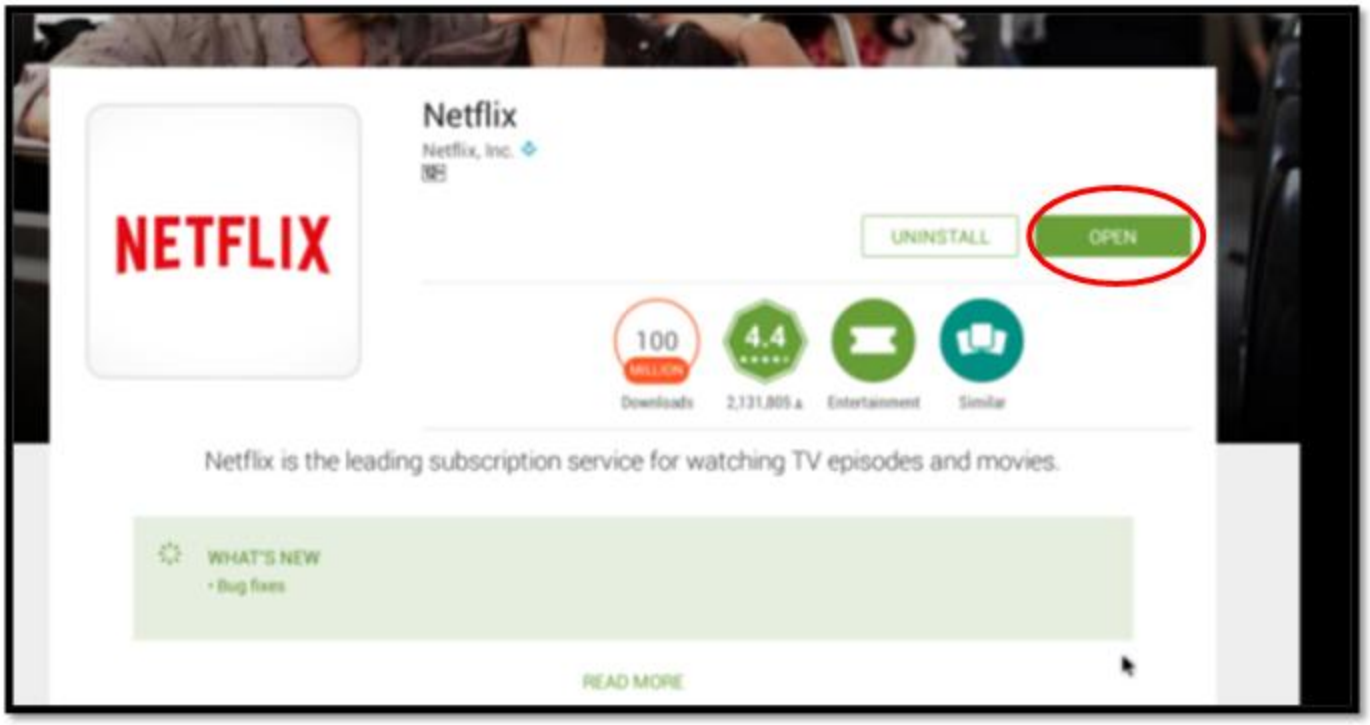
Left click on "INSTALL".



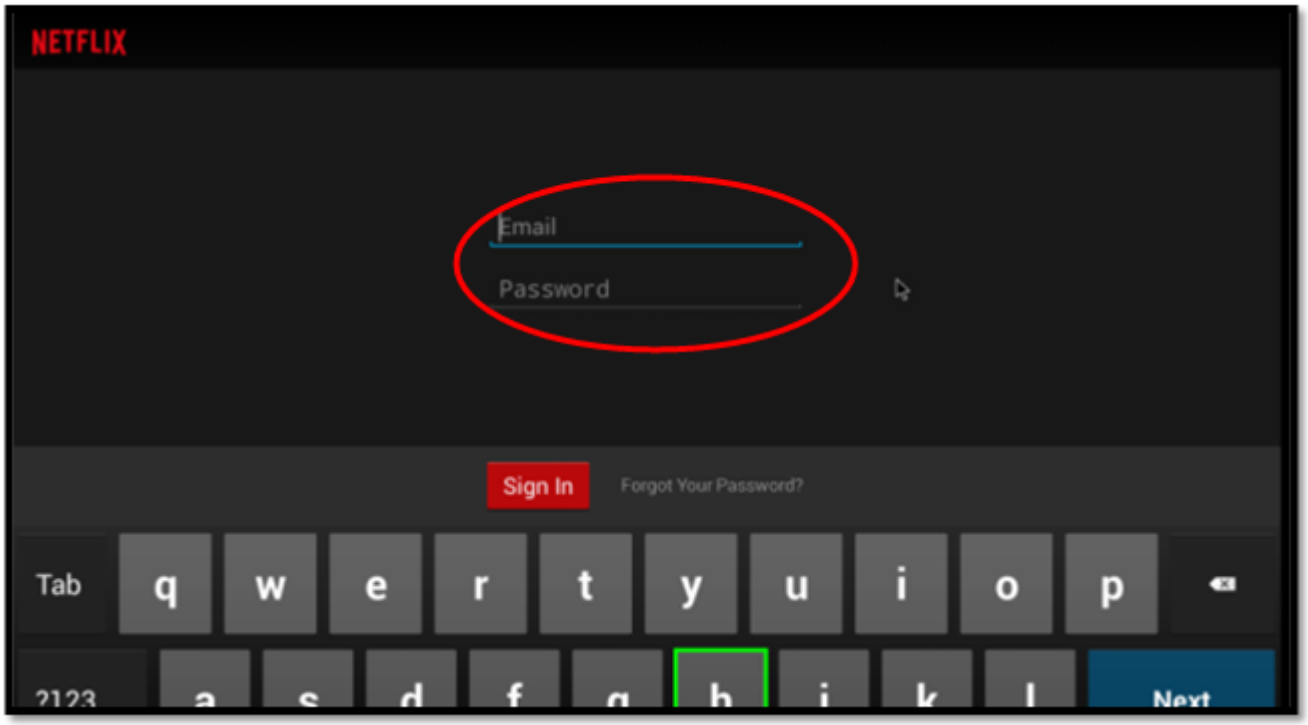
Once you accept the access terms the App will install.



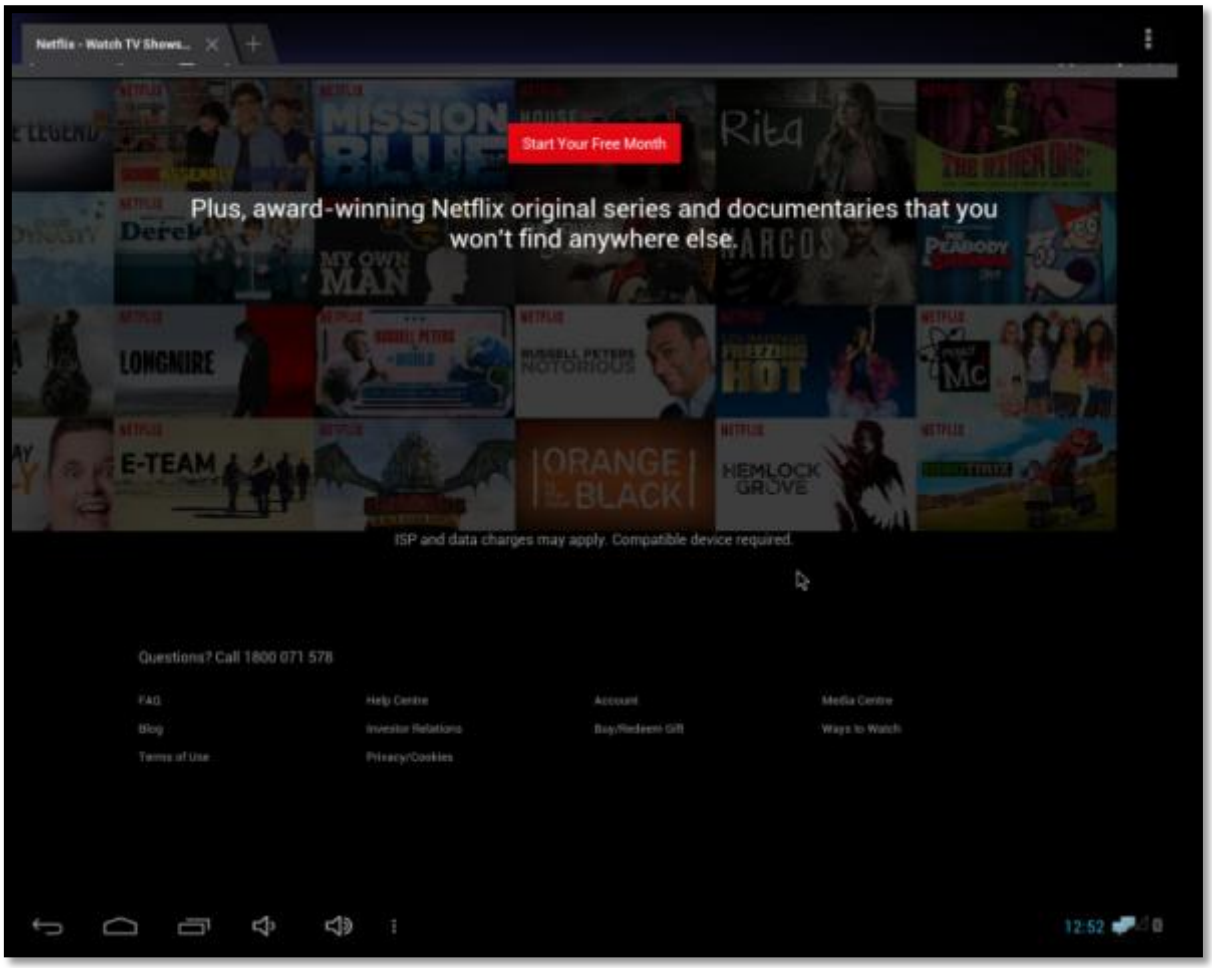



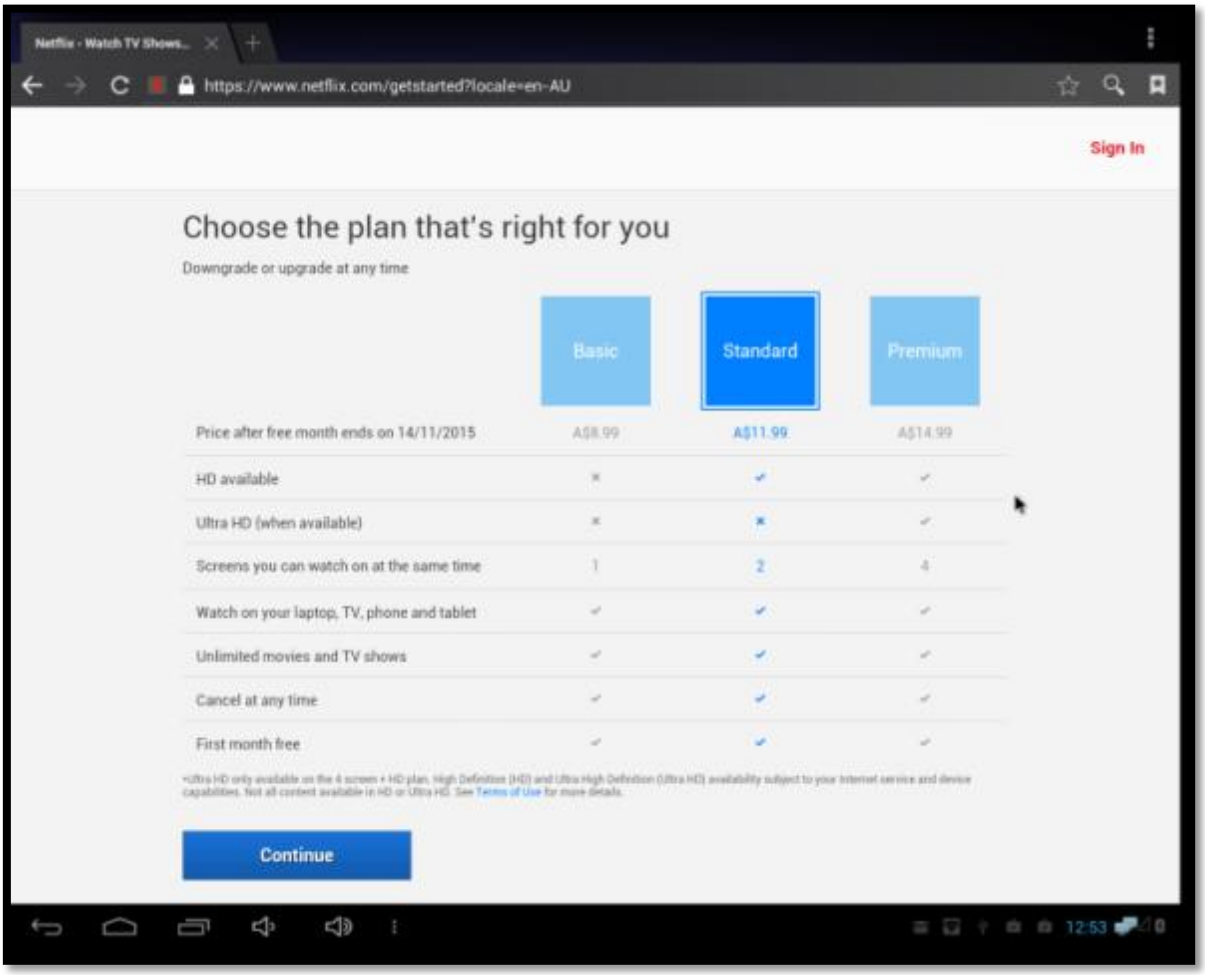


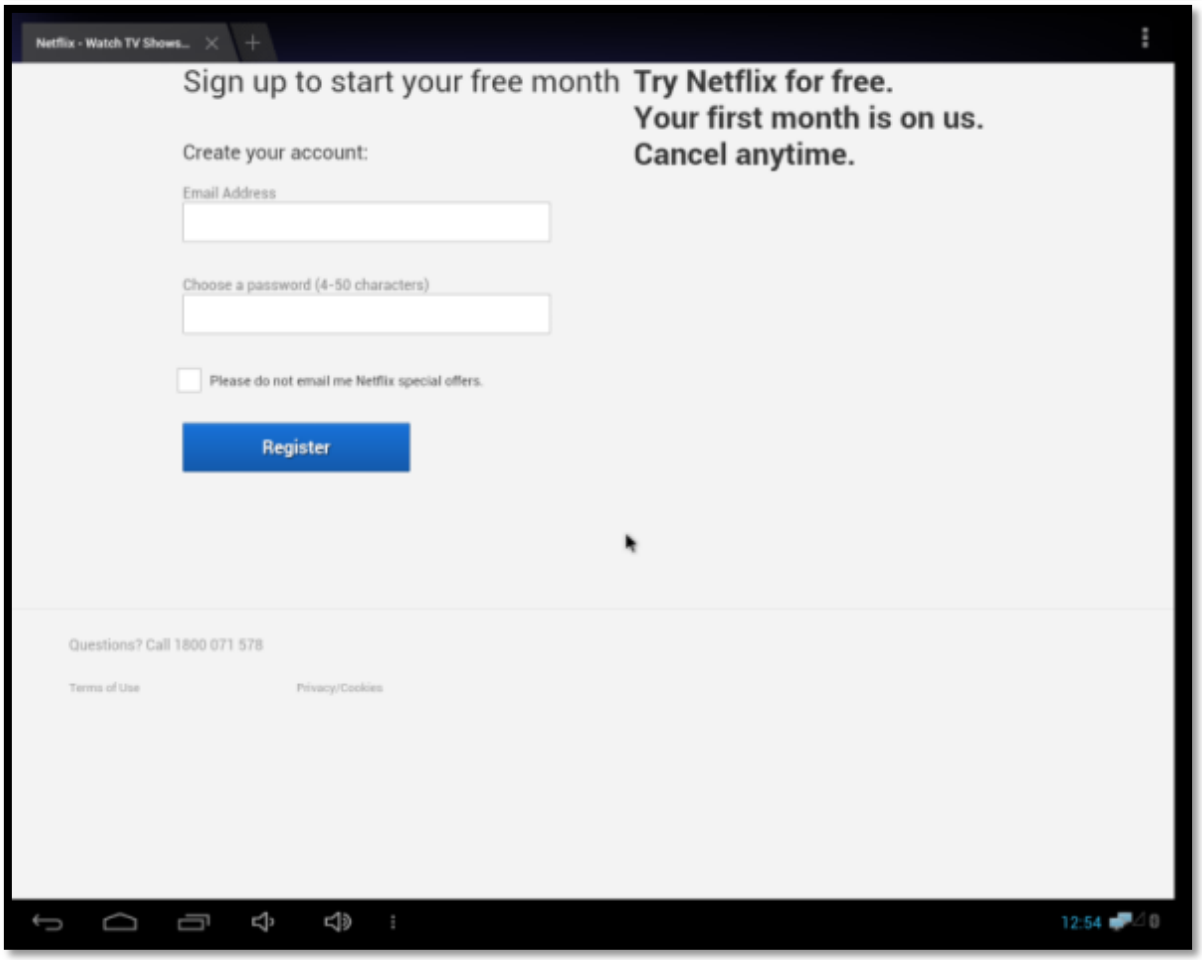

Left click on "OPEN". You will be prompted to enter your NETFLIX account details.



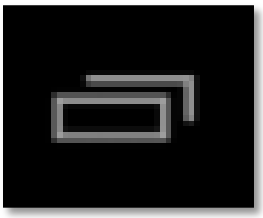
If you are not yet a NETFLIX account holder open your browser and search for "Netflix" then follow the prompts to start your free month trial.




Netflix - Watch TV Shows...
https://www.netflix.com/getstarted?locale=en-AU
Sign In
Choose the plan that's right for you
Downgrade or upgrade at any time
Basic
Standard
Premium
Price after free month ends on 14/11/2015
A$8.99
A$11.99
A$14.99
HD available
Ultra HD (when available)
Screens you can watch on at the same time
1
2
4
Watch on your laptop, TV, phone and tablet
Unlimited movies and TV shows
Cancel at any time
First month free
Continue
12:53


Netflix - Watch TV Shows...
Sign up to start your free month
Try Netflix for free.
Your first month is on us.
Cancel anytime.
Create your account:
Email Address
Choose a password (4-50 characters)
Please do not email me Netflix special offers.
Register
Questions? Call 1800 071 578
Terms of Use
Privacy/Cookies
12:54

Close App's by left clicking on the "▭Open app's/pages" icon and left clicking and dragging windows up or down till they disappear off the screen.



Connecting your phone with the CuLink is as easy as downloading the appropriate App. For example, Apple phones play videos best through the CuLink when utilizing the AirPin (Pro) App.

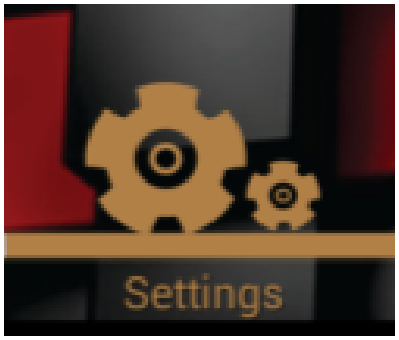
**ESSENTIAL APP's PRE-INSTALLED**

Camera
Email
Fire Air Receiver
Gmail
Google
Miracast Receiver
Music
News & Weather
People
Play Store (Marketplace)
Talk
Voice Search

## RECOMMENDED FREE APP's

Adobe Reader
Alarm clock - numerous free choices
Australian and world newspapers
Calendar - numerous free choices
Calculator by Mobi
Fast - (Facebook)
Games - numerous free choices
Google Maps
Live wallpaper - numerous free choices
News BBC/CNN/Fox/etc.
Netflix
Office Suite 8 + PDF Converter by Mobi
Pandora Internet Radio
Skype
Slideshow Bob
Ten Play - Network Ten
Twitter
Wikipedia

# 5.Settings Explained



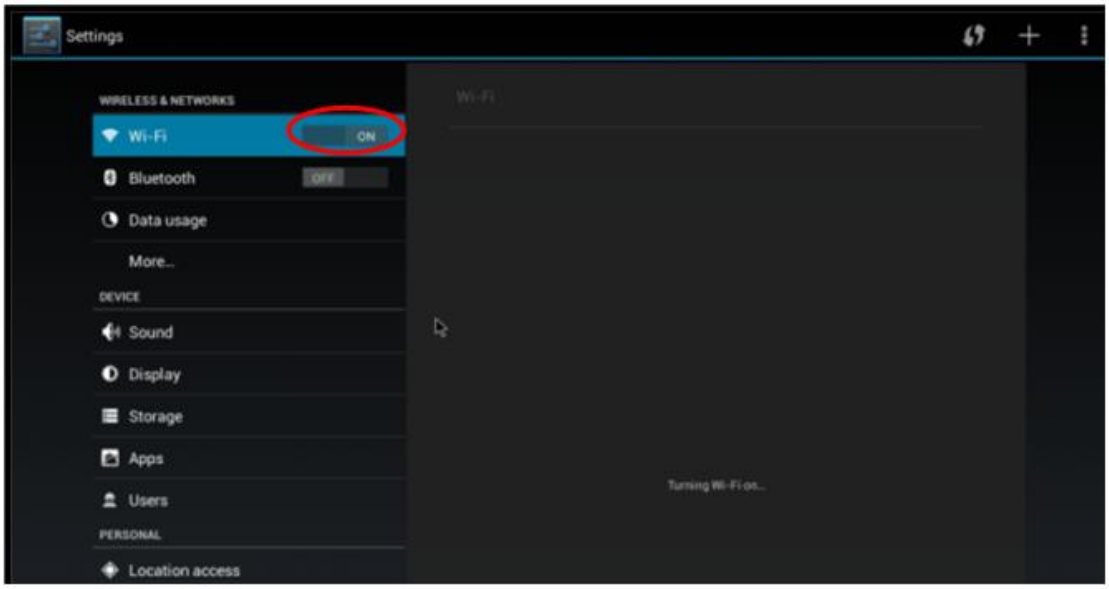

The following section details the various settings available on your CuLink.

## WIRELESS & NETWORKS

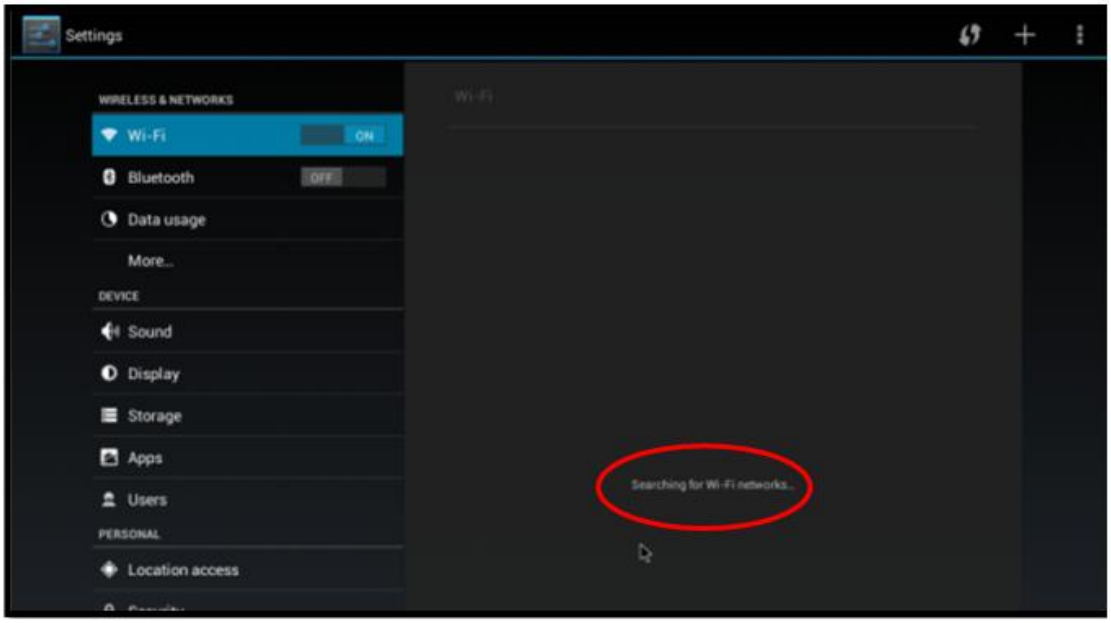
This is the section where you can activate, set up and configure the CuLink's WiFi and Bluetooth capabilities. The CuLink is able to utilize WiFi to connect to another WiFi service, set up a WiFi hotspot which will allow you to access the internet through other devices, enable Bluetooth connectivity between devices, and enable Bluetooth tethering which allows sharing of the CuLink's internet connection.

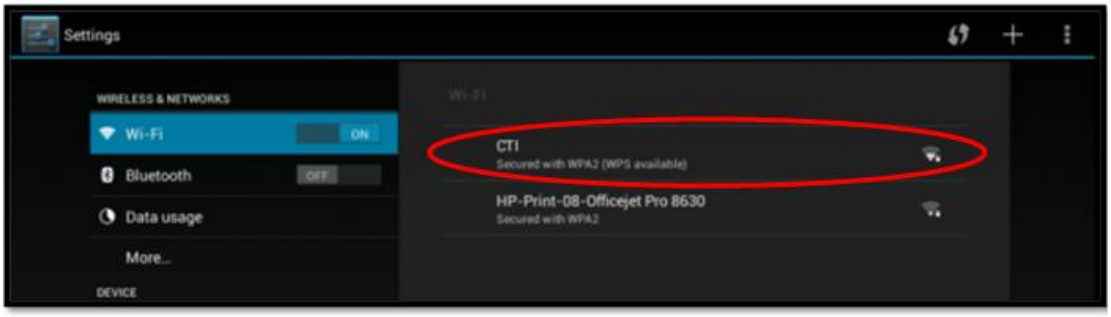
- **Enable WiFi to receive WiFi a signal from another device**

Left click on the WiFi "OFF/ON" switch to turn ON and activate the WiFi receiver.

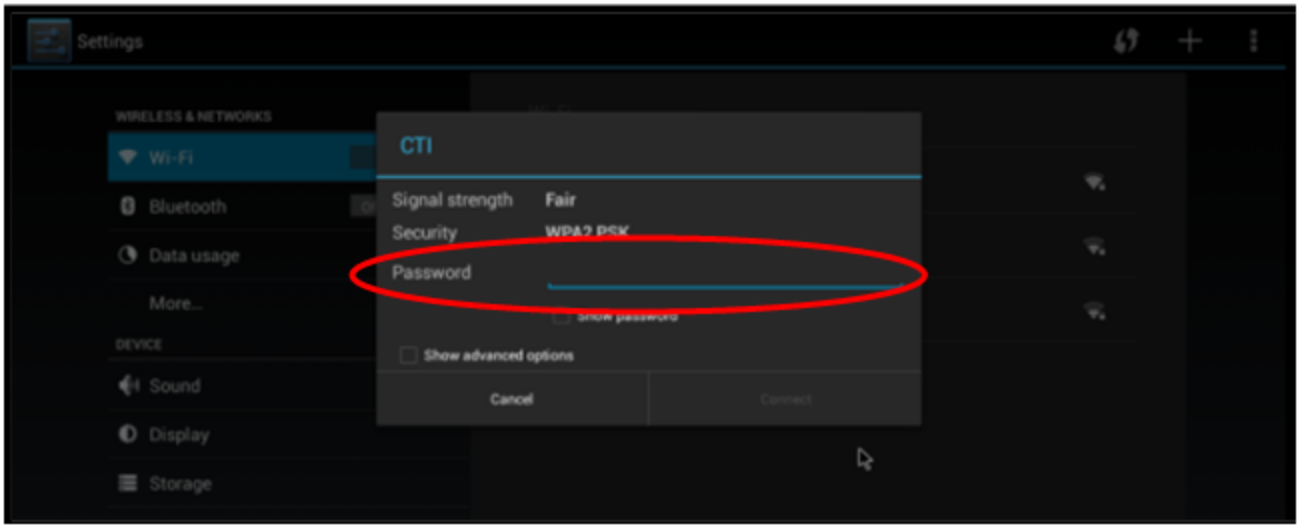



The CuLink will search for available WiFi networks.



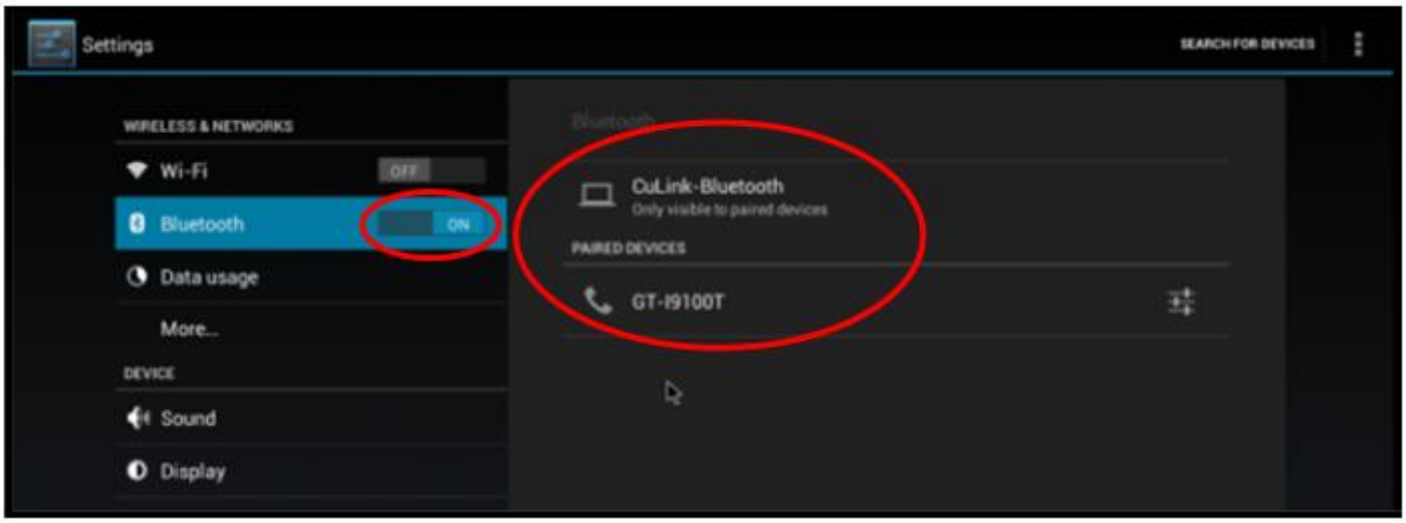

Left click on the WiFi network you wish to connect to.



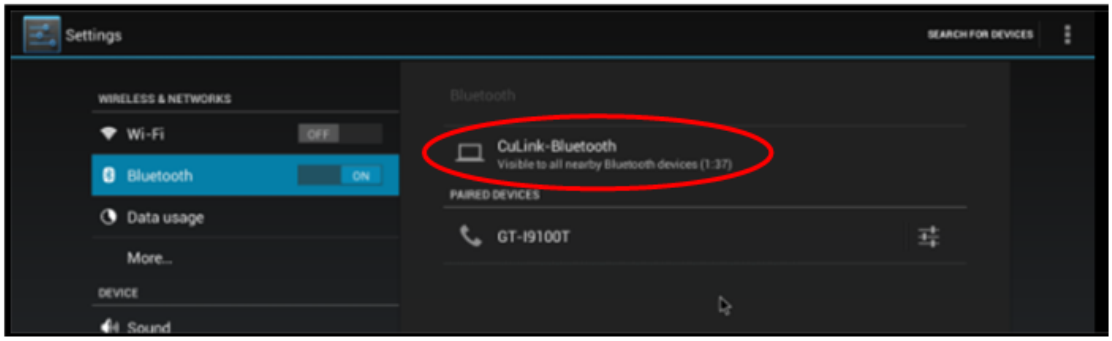

You will be prompted to enter the password.

## ➢ Activate Bluetooth connectivity

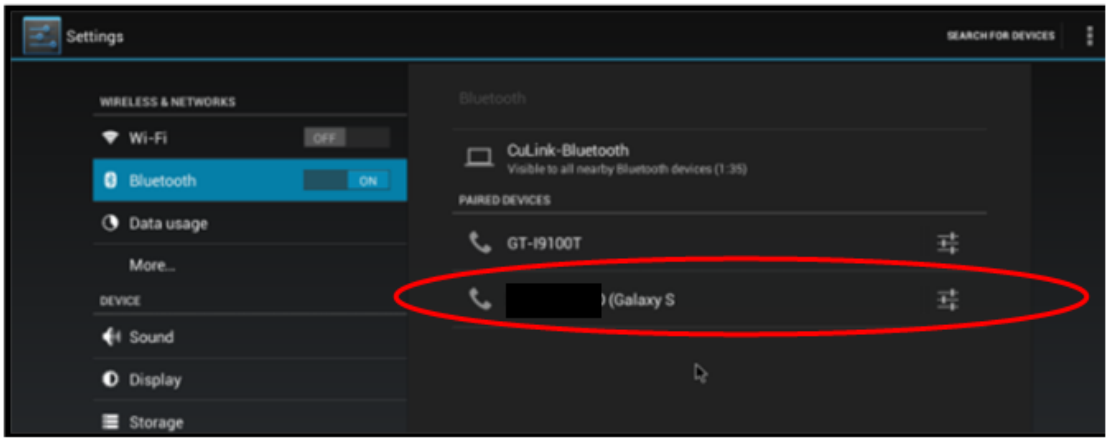
To activate the Bluetooth connectivity function of the CuLink left click on the "OFF/ON" switch



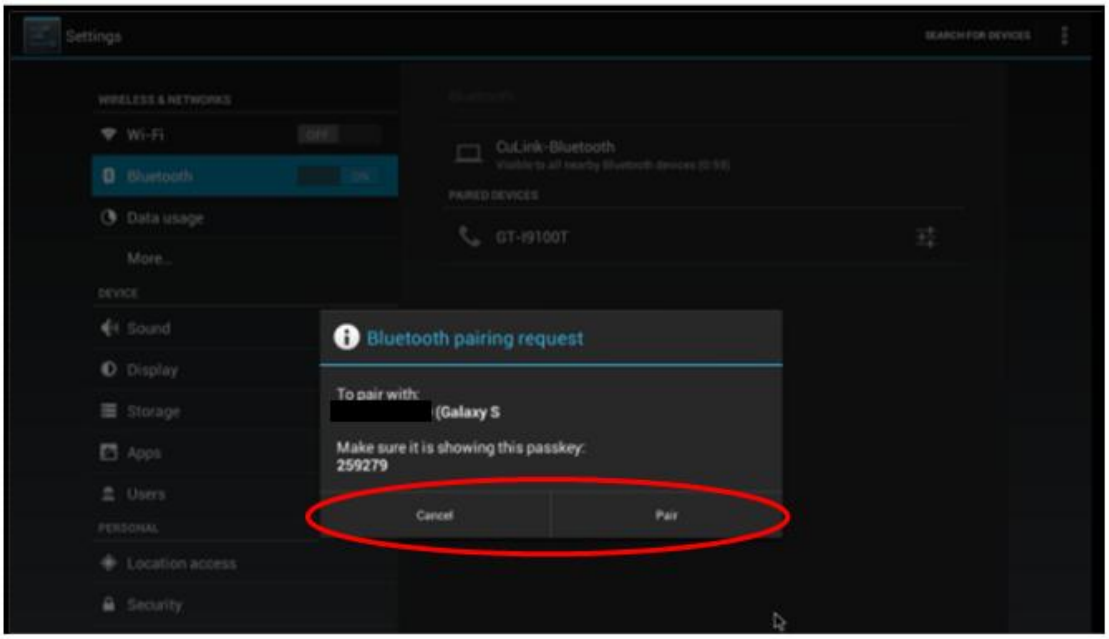

Available devices and paired devices will be listed. To turn on the Culink Bluetooth visibility, left click on CuLink-Bluetooth and a 2 minute countdown to connect will initiate.




Left click on Pair after confirming matching passkeys on both the CuLink and your chosen device. Select the Pair option on your device as well.

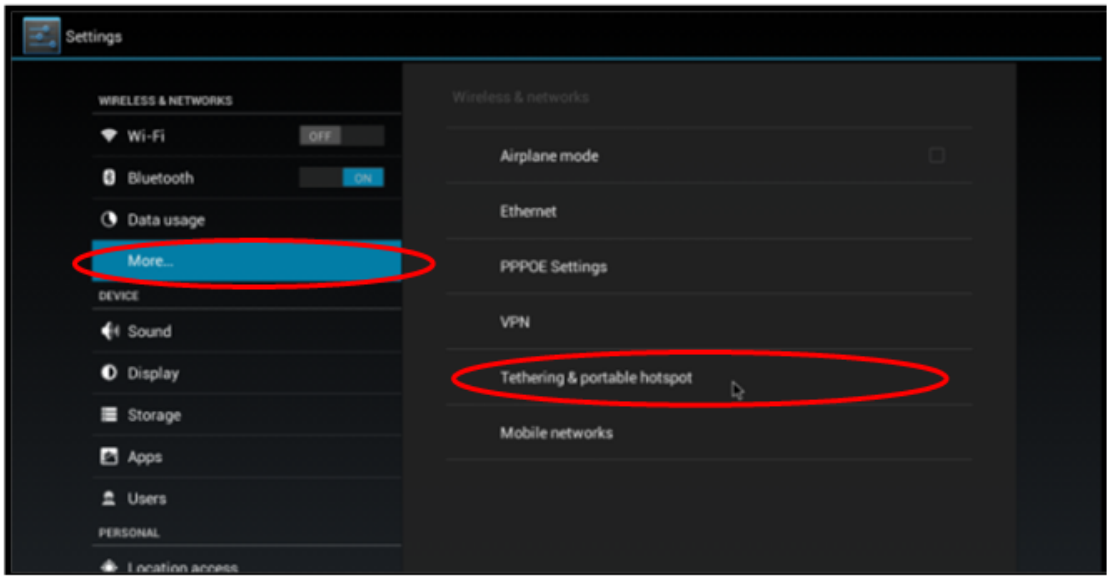


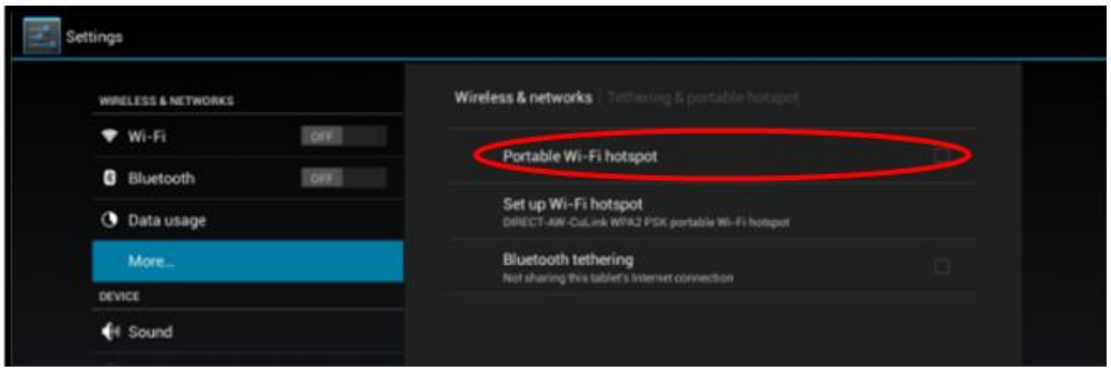

Newly paired device will now be listed.



## ➢ Activate WiFi hotspot

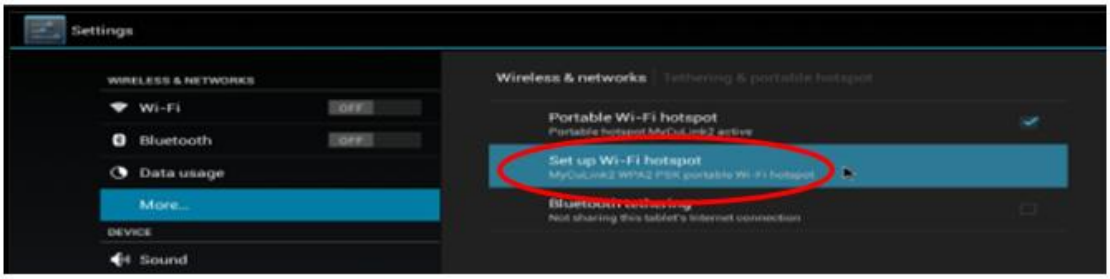
Left click on "More..." then left click on "Tethering & portable hotspot".

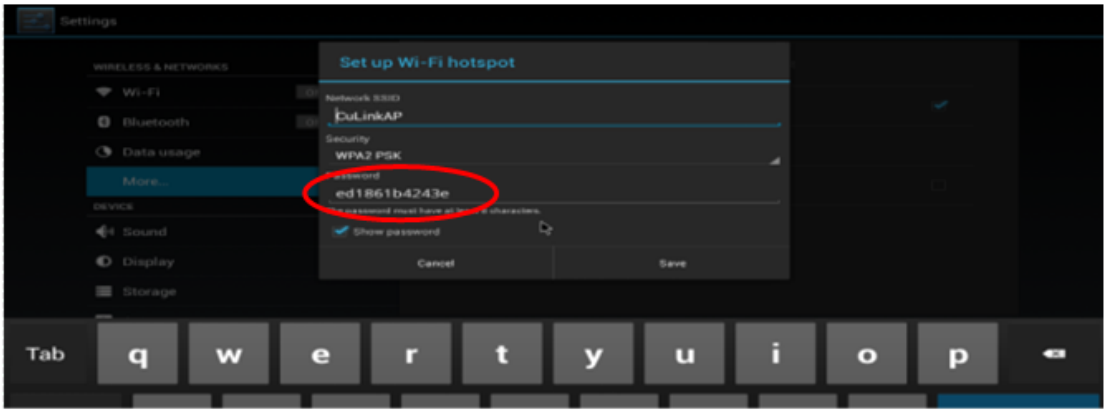


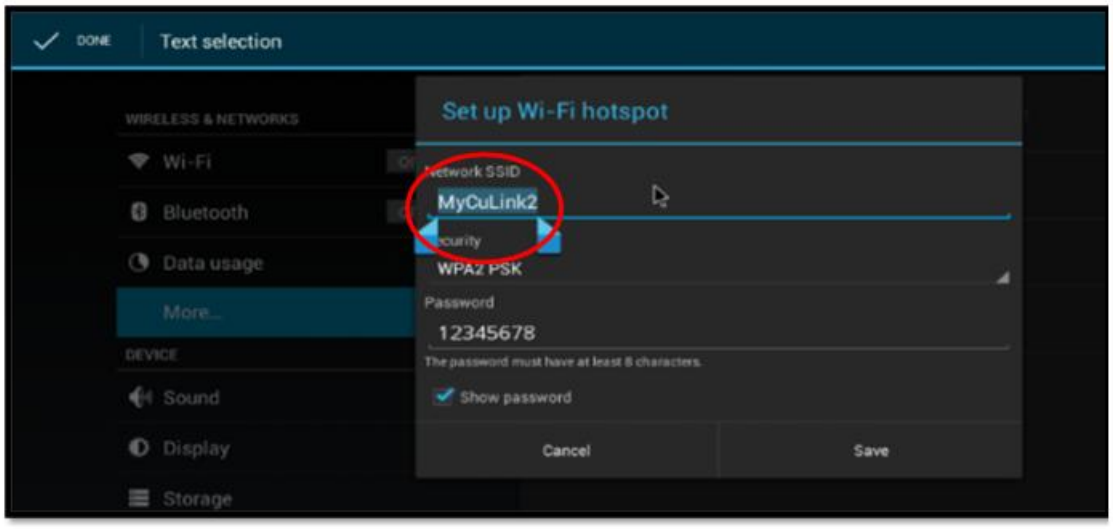




Left clicking to insert a tick in the Portable Wi-Fi hotspot will enable the hotspot.

Left clicking on “Set up Wi-Fi hotspot” will allow you to change the name and password which is a random generated 12 digit alphanumeric code. You must use at least an 8 digit password. Passwords can be alphanumeric and may contain symbols and can be up to 64 characters in length. Utilize the built in virtual keyboard or connect your own.

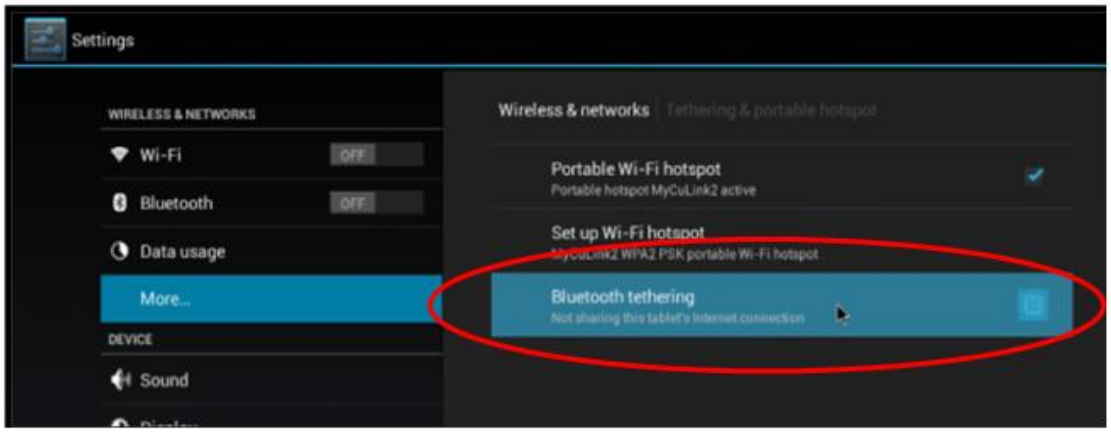


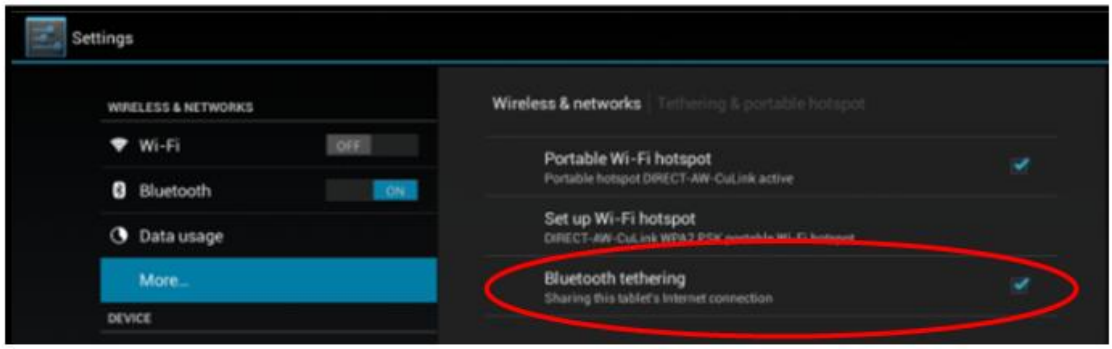



## ➢ Activate Bluetooth tethering

Bluetooth tethering can be enabled from this same menu by left clicking in the Bluetooth tethering box to insert a tick in the box. This will share the CuLink's internet access through paired Bluetooth devices.



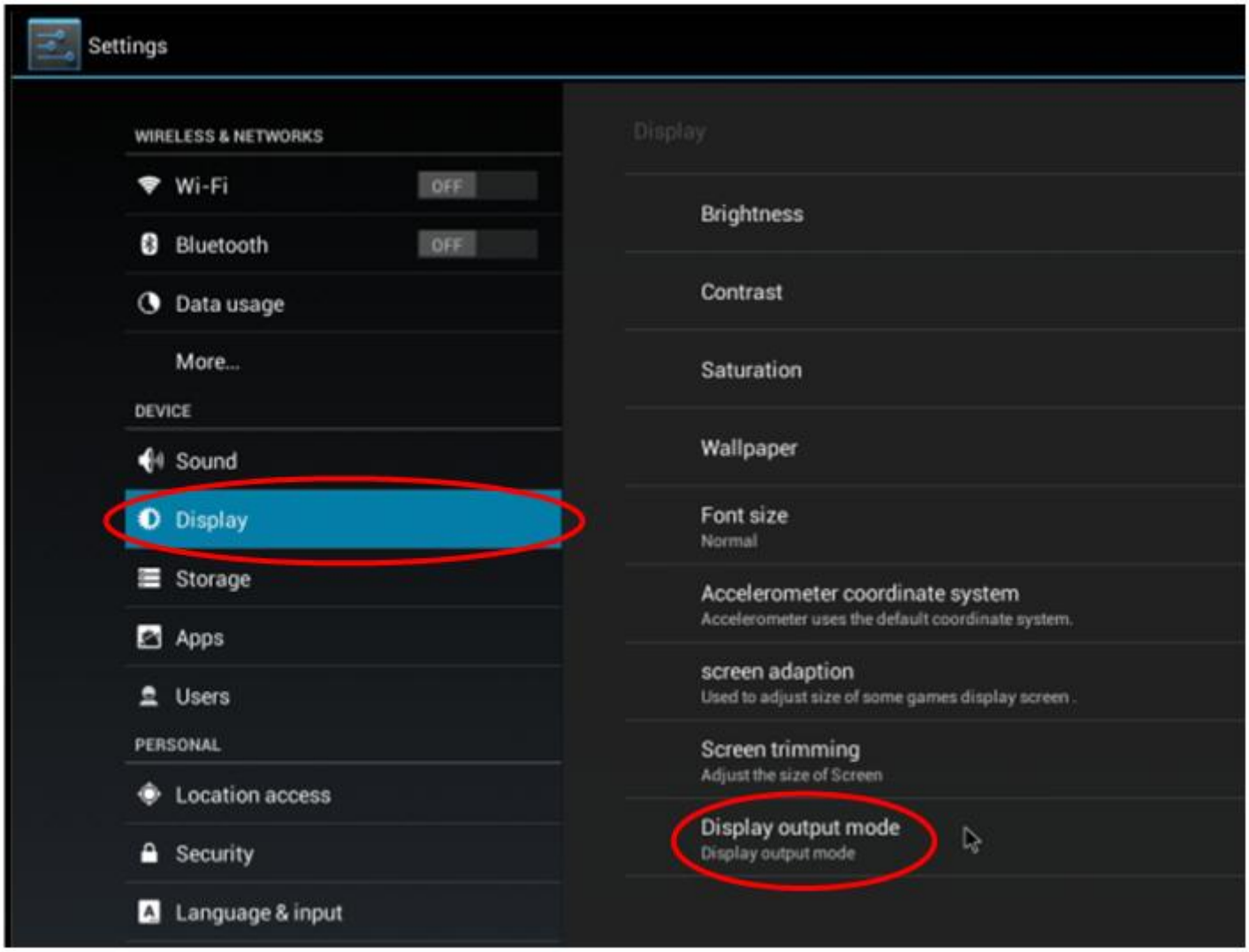

You can now connect your devices to the CuLink via Bluetooth tethering using your devices settings.

## Optimizing sound and display settings

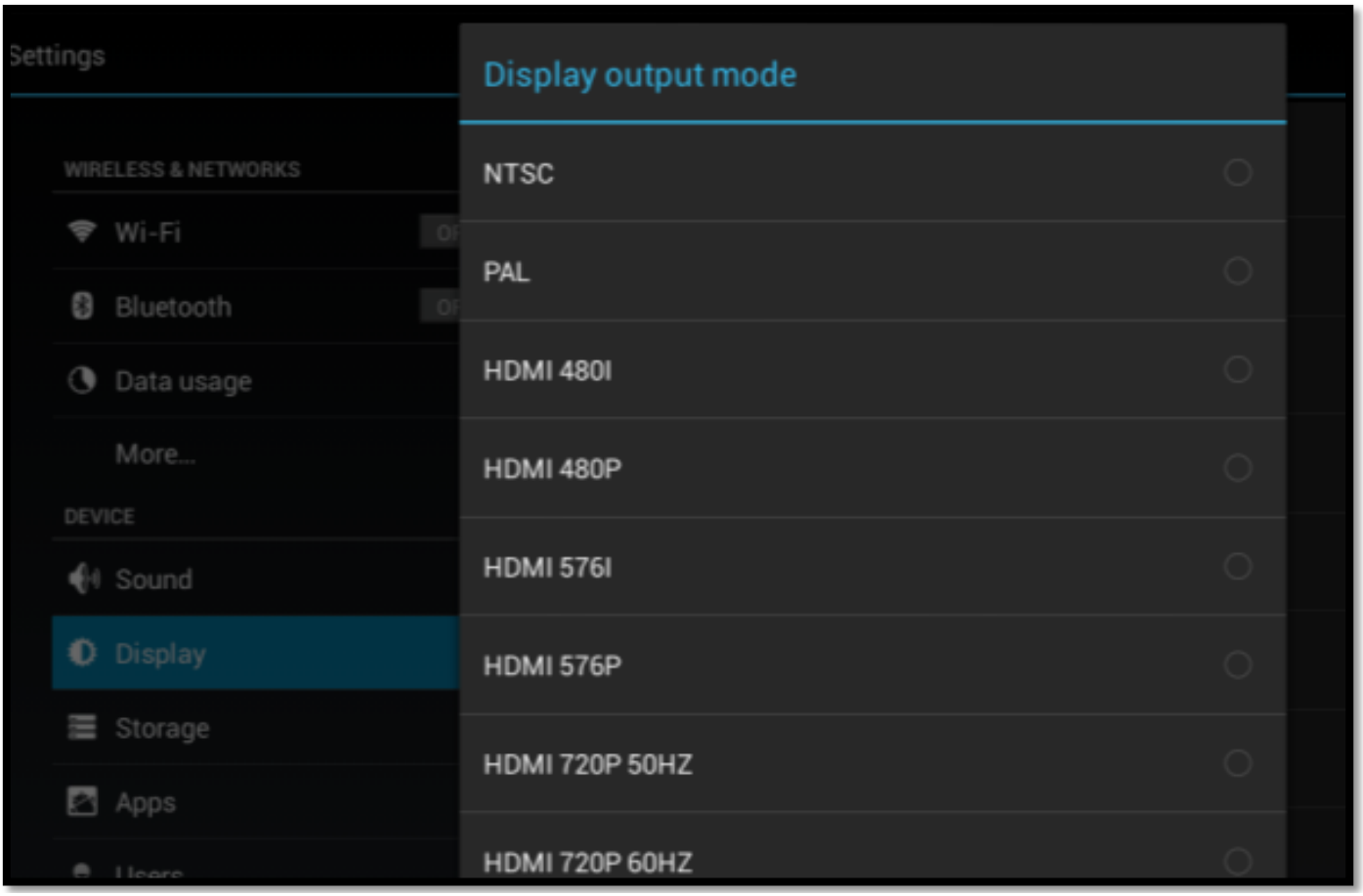
Your CuLink is able to connect to any screen with VGA or HDMI connections. If you have an older TV you wish to utilize there are adapters available for VGA to RCA or Coaxial. Most screens with multiple inputs will auto select source.

## Display

Left click on Display then left click on Display output mode.



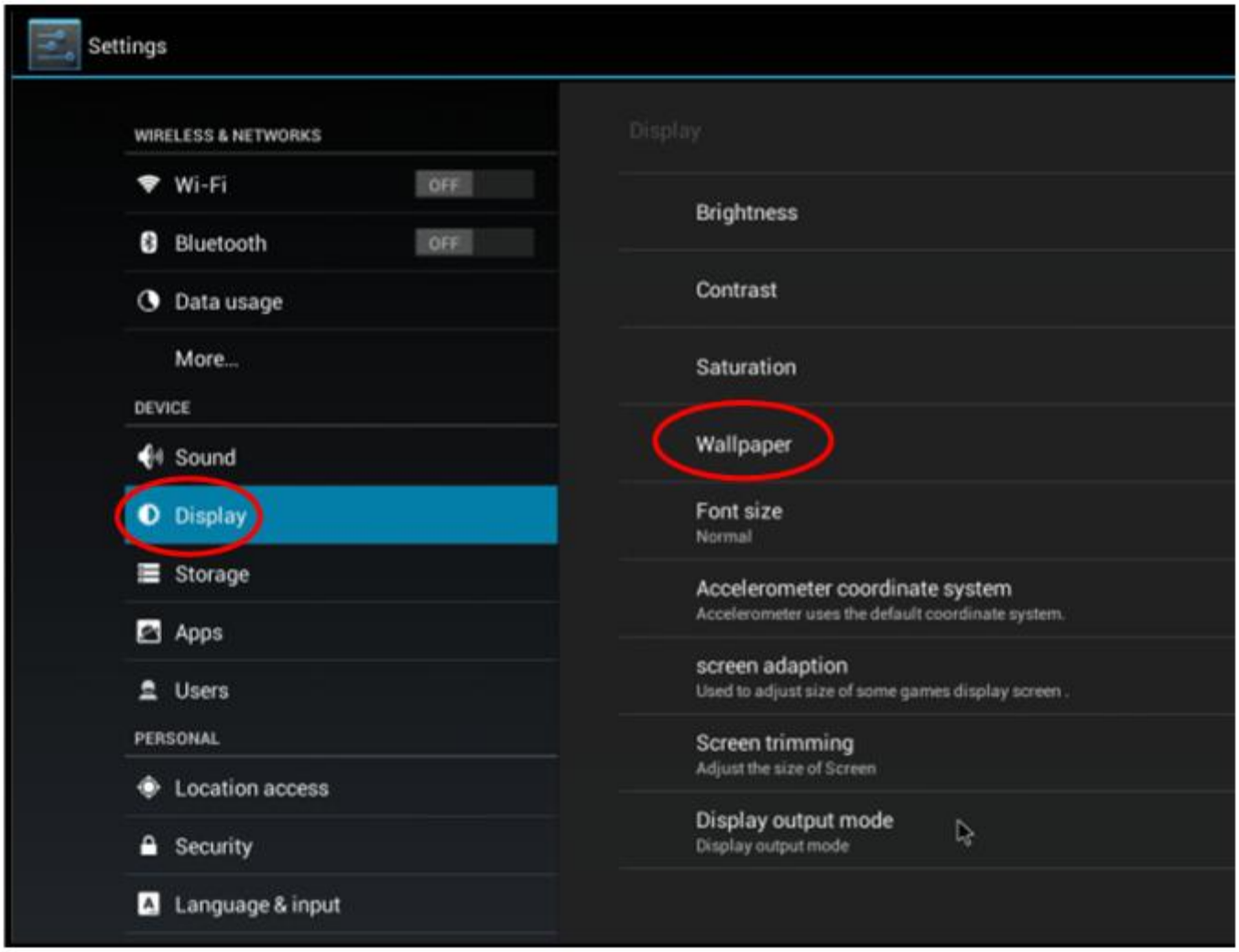
Numerous HDMI and VGA screen resolution options will appear including NTSC and PAL formats. Select the optimal screen resolution to match your screens specifications.



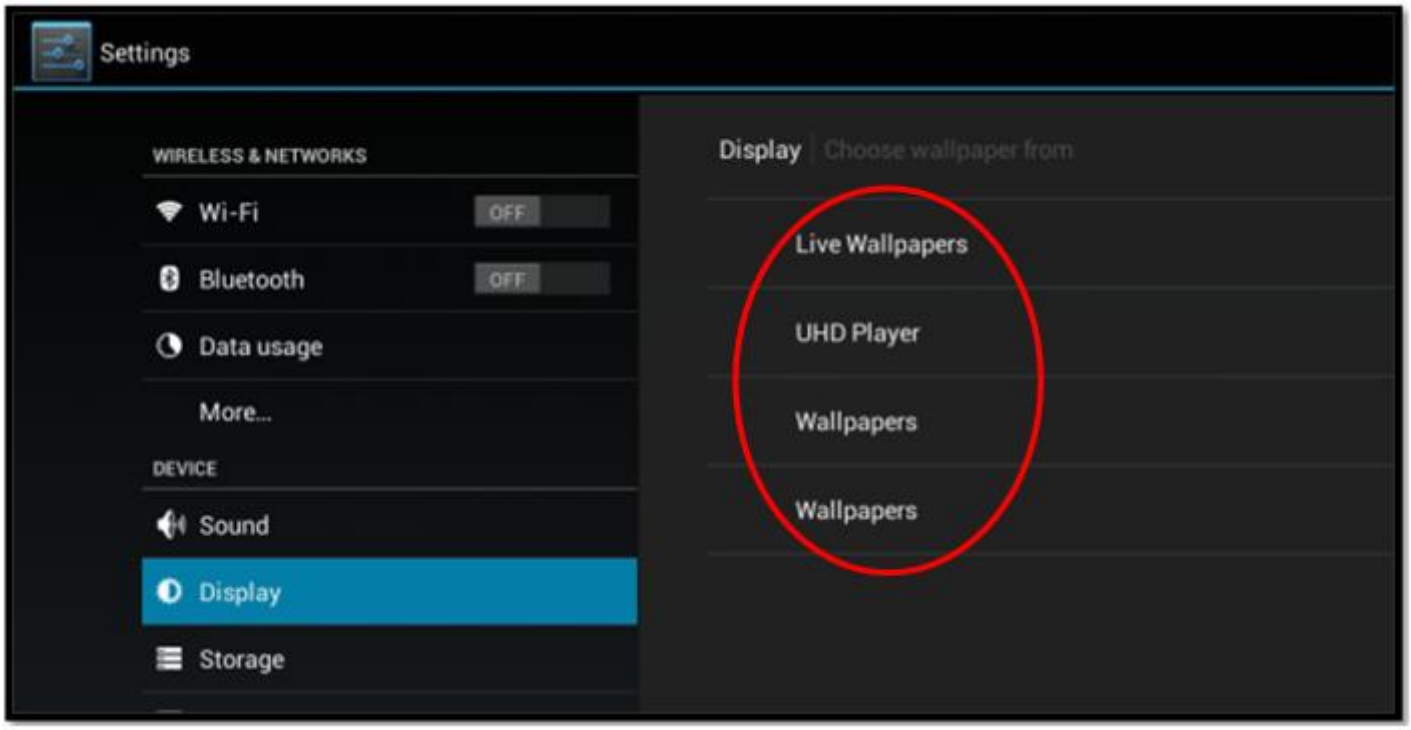

## Changing Wallpaper

There are a few ways to change the wallpaper on your screen.

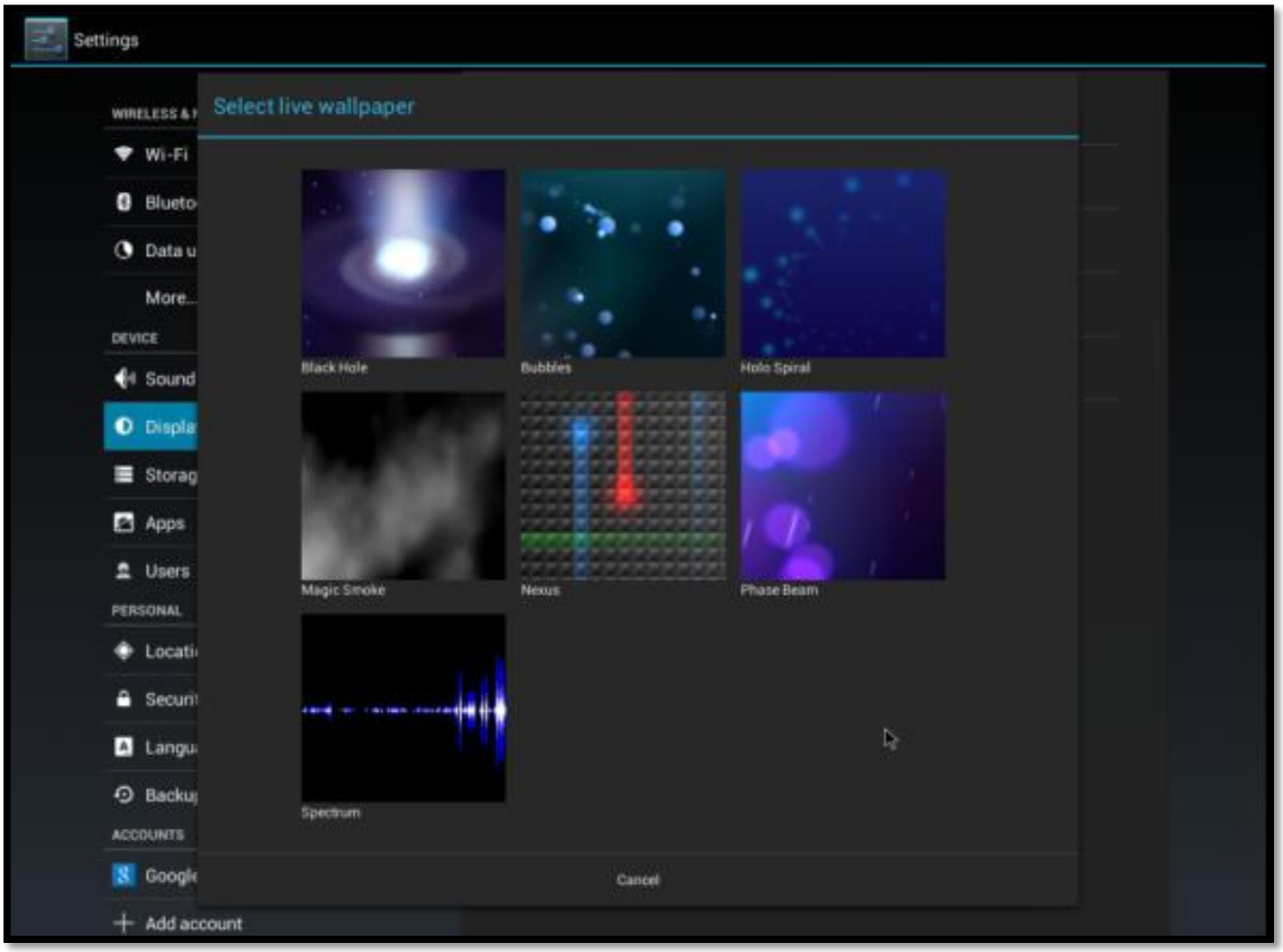
You can left click on "Display" as above then left click on "Wallpaper".

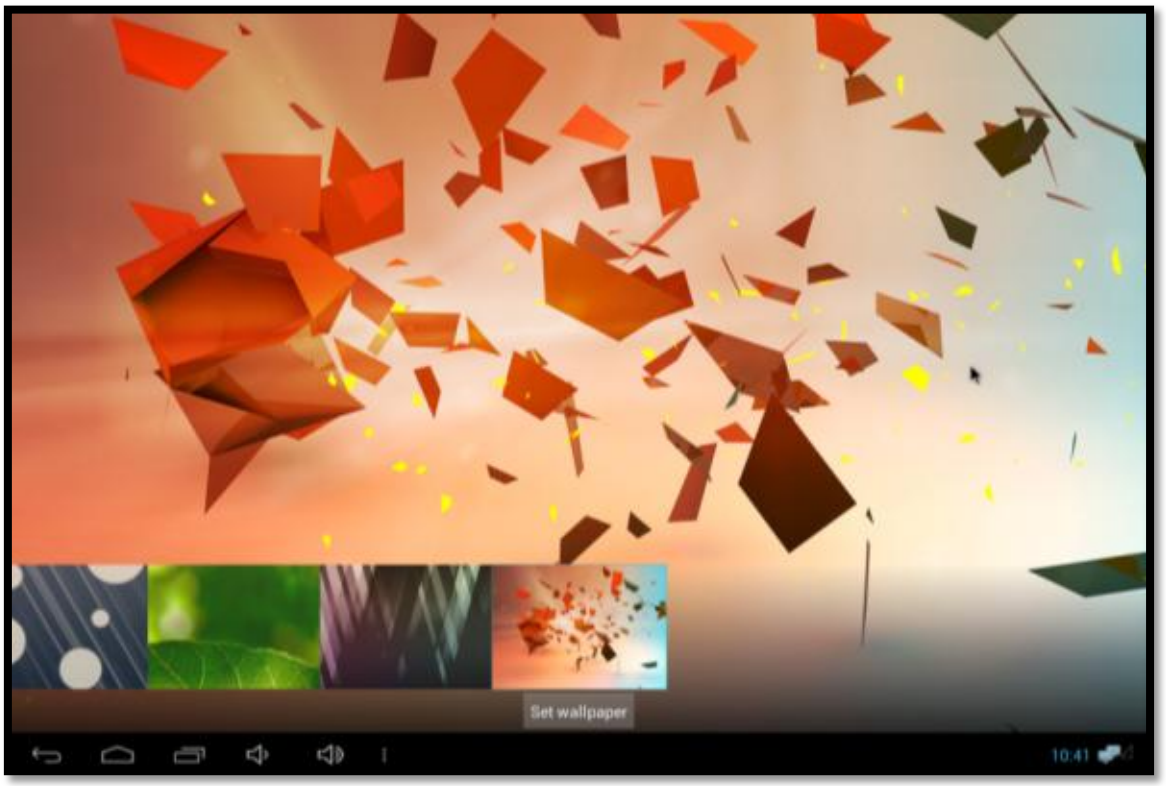


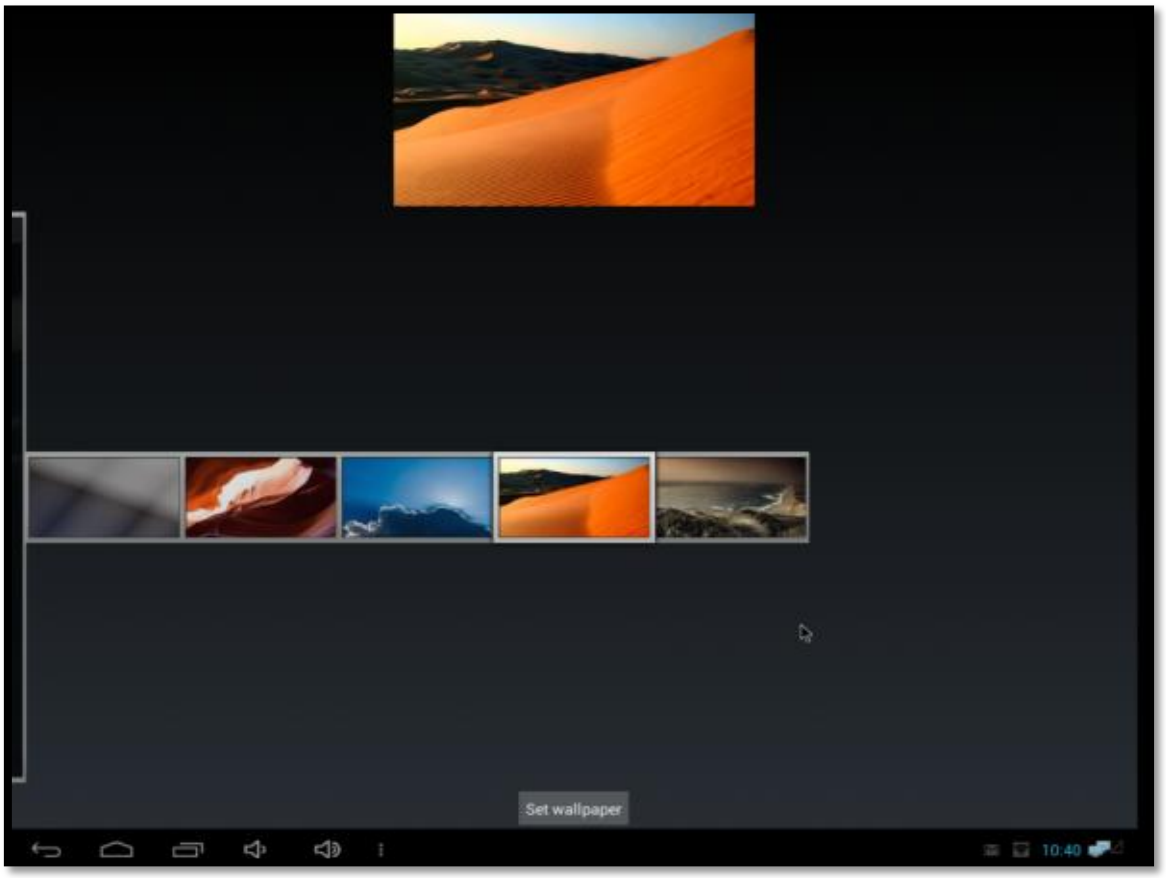

Select the directory to search for a wallpaper in.



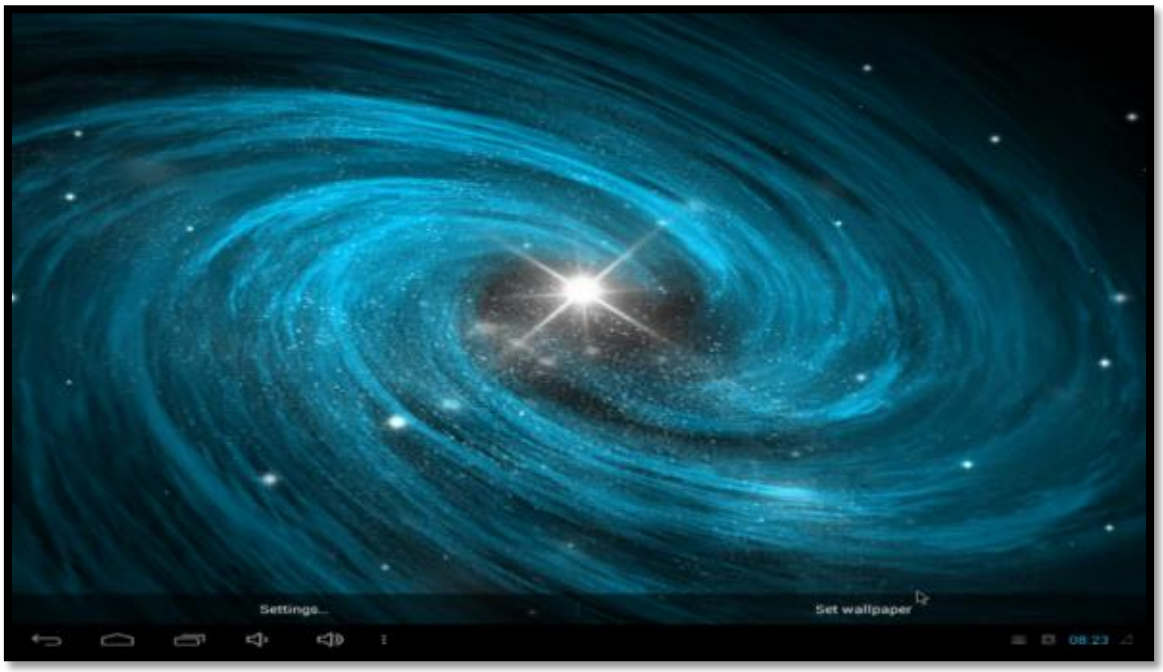
Choose from a selection of live or static wallpapers or add your own pictures into UHD Player or download wallpaper App's from the Google Play Store.






Left click image to select and then left click "Set wallpaper".




You can also change the wallpaper from the home page.

Use a physical keyboard and using the left or right arrow keys select any alternate home page icon that is not currently highlighted. (1)

Use the mouse and left click menu icon (3 vertical dots). (2)

A launcher menu on the right will appear. (3)

Use the mouse to left click the "Set the wallpaper". (4)

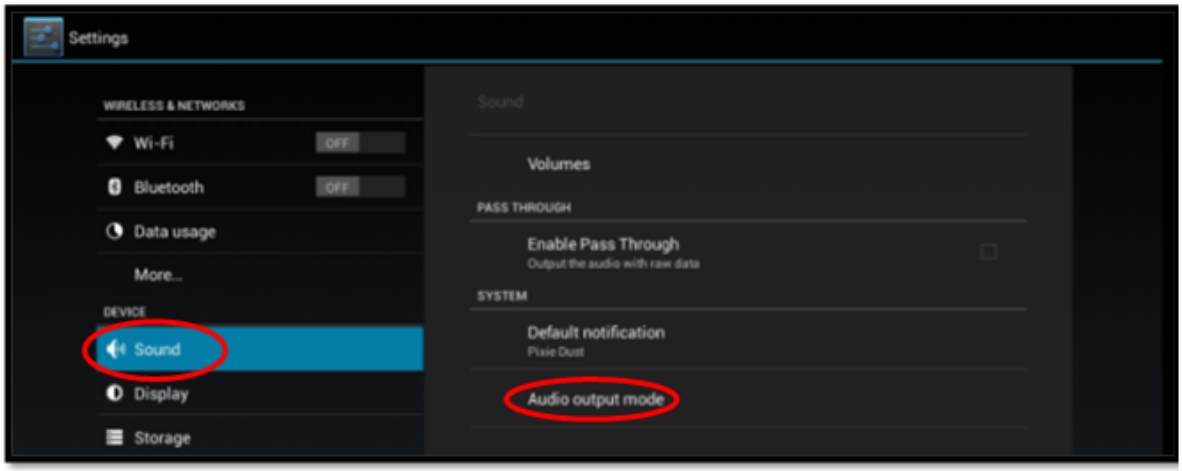
Select wallpaper from the following file locations;

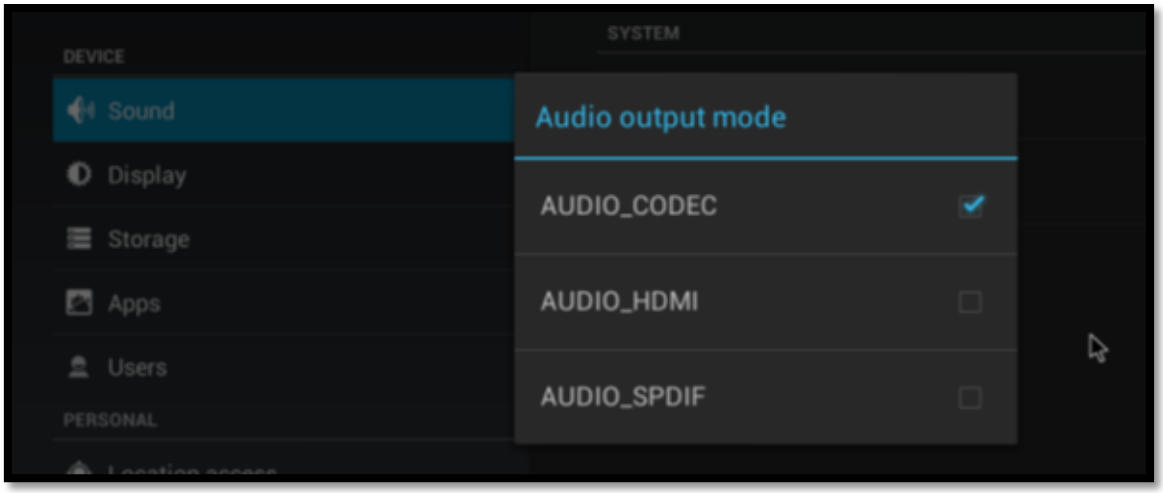
Live wallpaper
UHD Player
Launcher (default wallpaper launcher)
TvdLauncher (default wallpaper launcher)

Use the mouse to left click the image you wish to set as the wallpaper and then “Set wallpaper” as before.

## Sound

Sound will also auto select based on your connections utilized. To manually select left click Sound then left click Audio output mode.

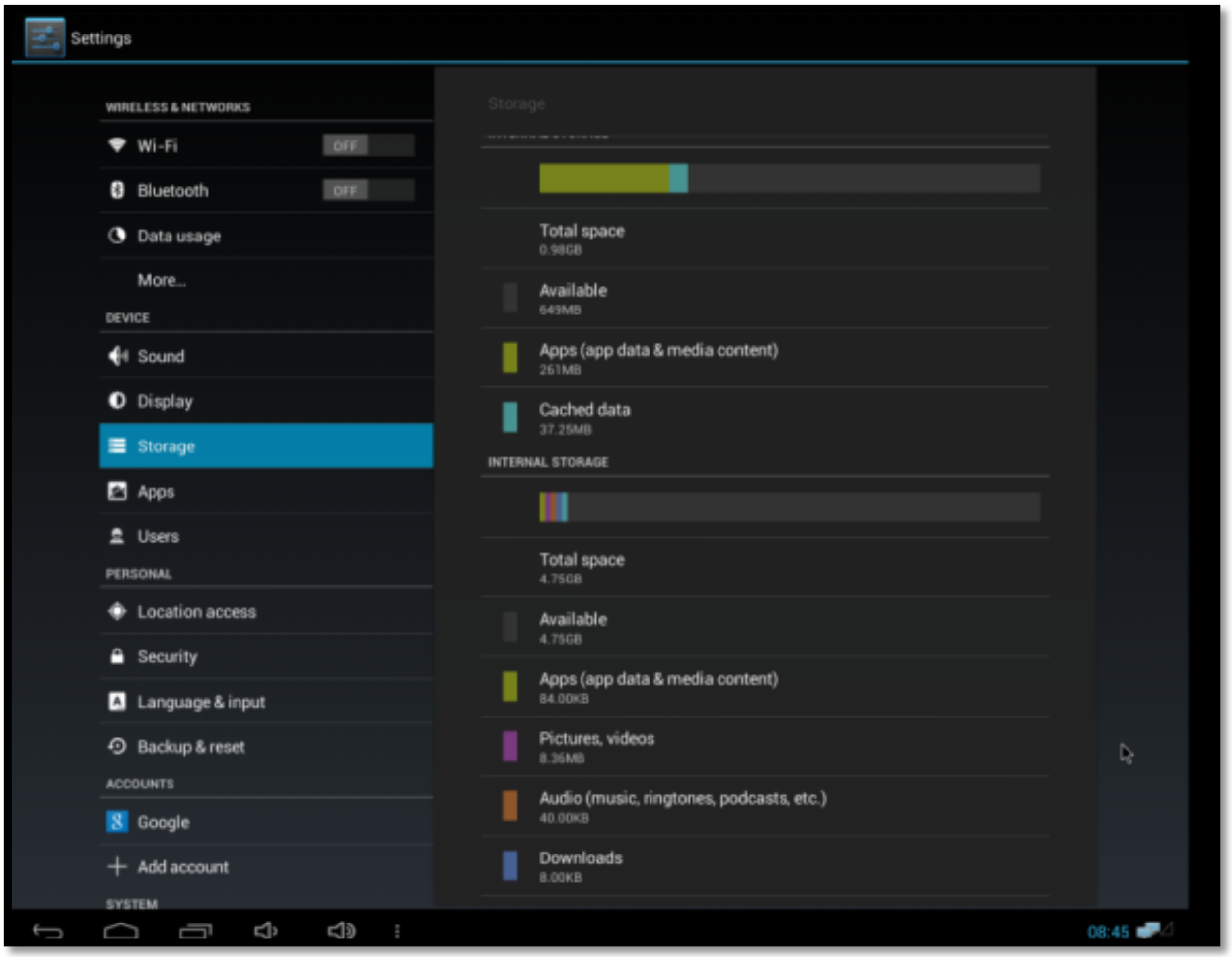



AUDIO_CODEC for 3.5mm earphone jack with VGA.
AUDIO_HDMI for HDMI.
AUDIO_SPDIF for fiber optic audio out.

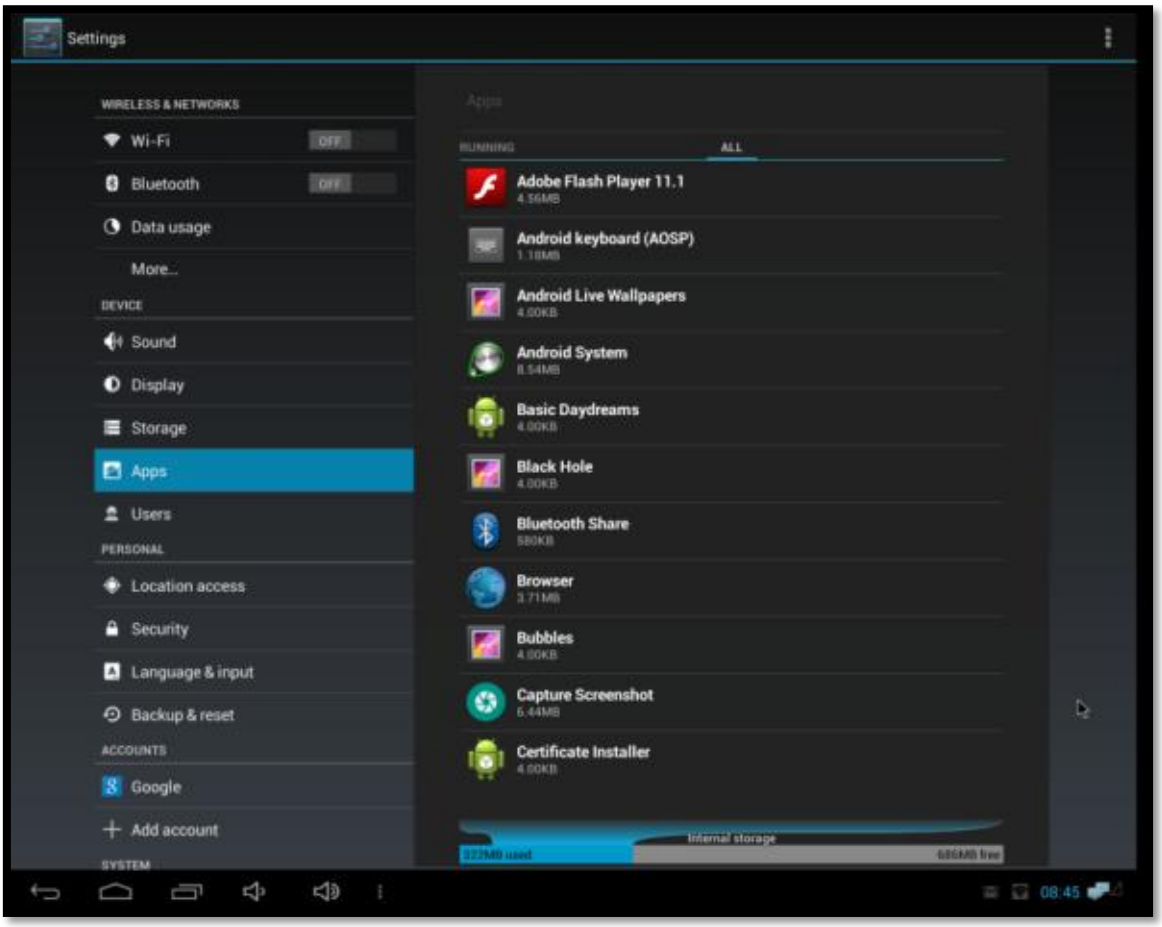
## Storage

This section details the used and available internal storage as well as that of the SD Card and any attached devices.

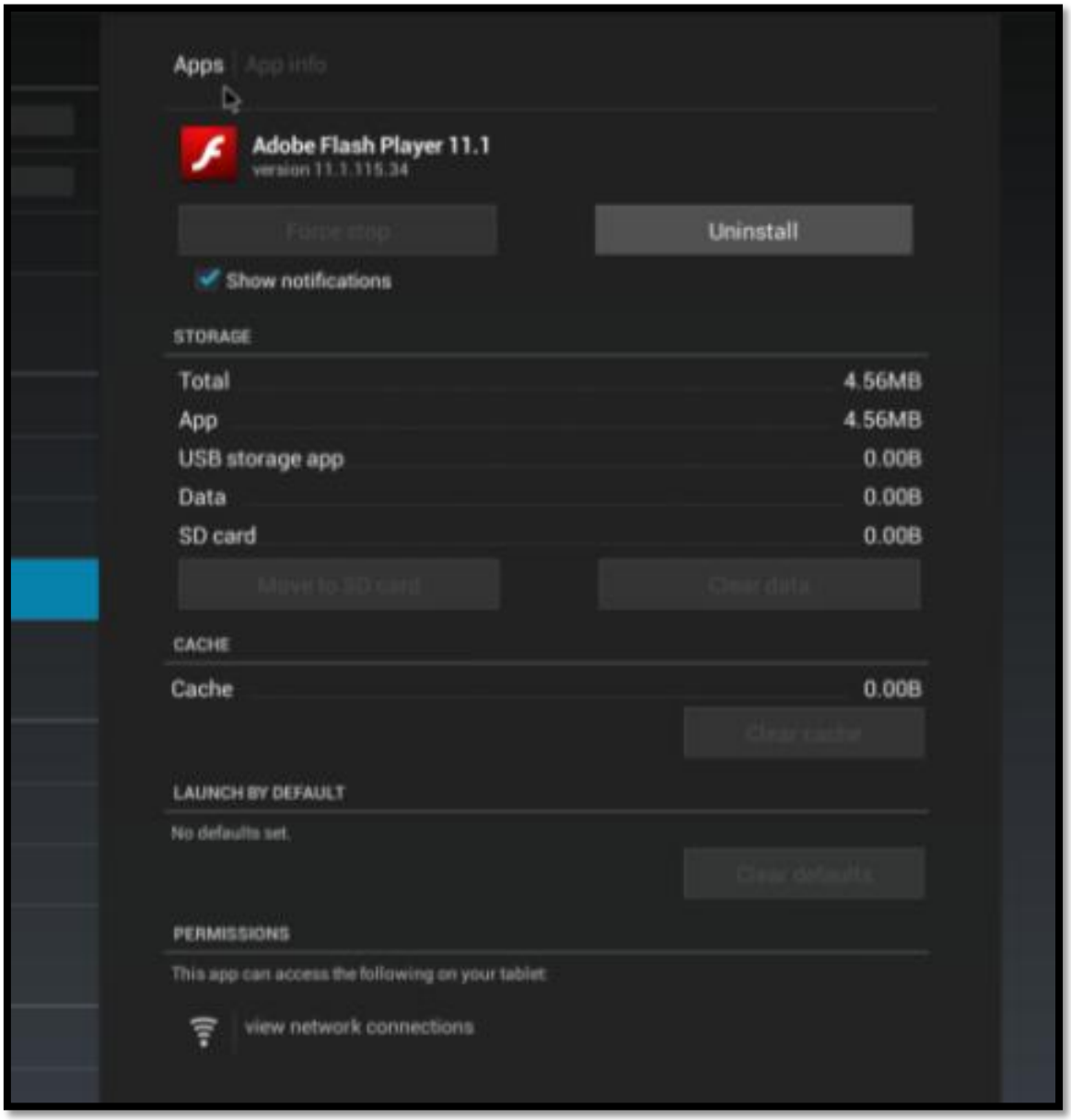


## Apps

This section lists App's under the following headings; Downloaded, On SD Card, Running and All.

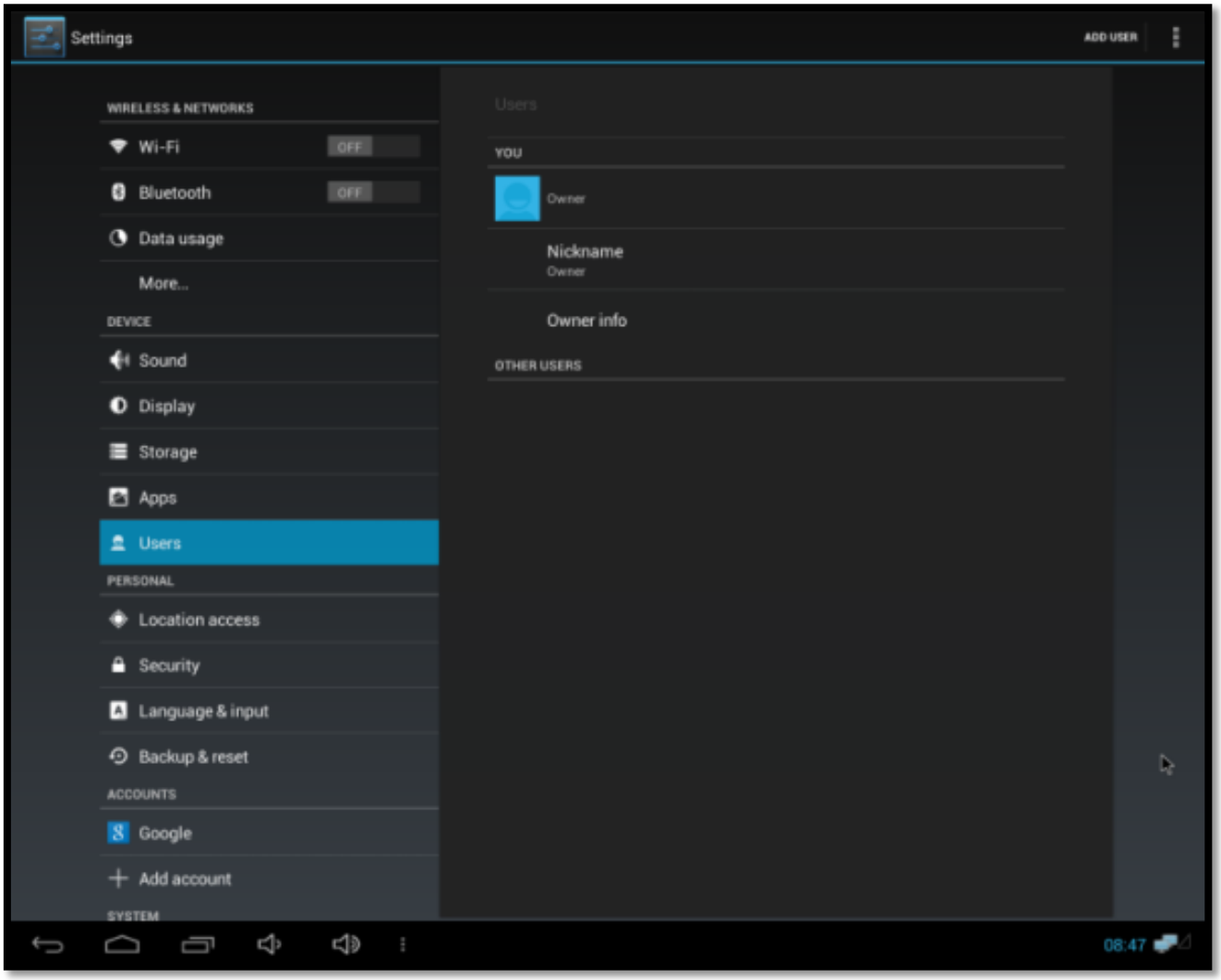



Left clicking on an App will open its details page.


Apps
App info
Adobe Flash Player 11.1
version 11.1.115.34
Force stop
Uninstall
Show notifications
STORAGE
Total 4.56MB
App 4.56MB
USB storage app 0.00B
Data 0.00B
SD card 0.00B
Move to SD card
Clear data
CACHE
Cache 0.00B
Clear cache
LAUNCH BY DEFAULT
No defaults set.
Clear defaults
PERMISSIONS
This app can access the following on your tablet:
view network connections

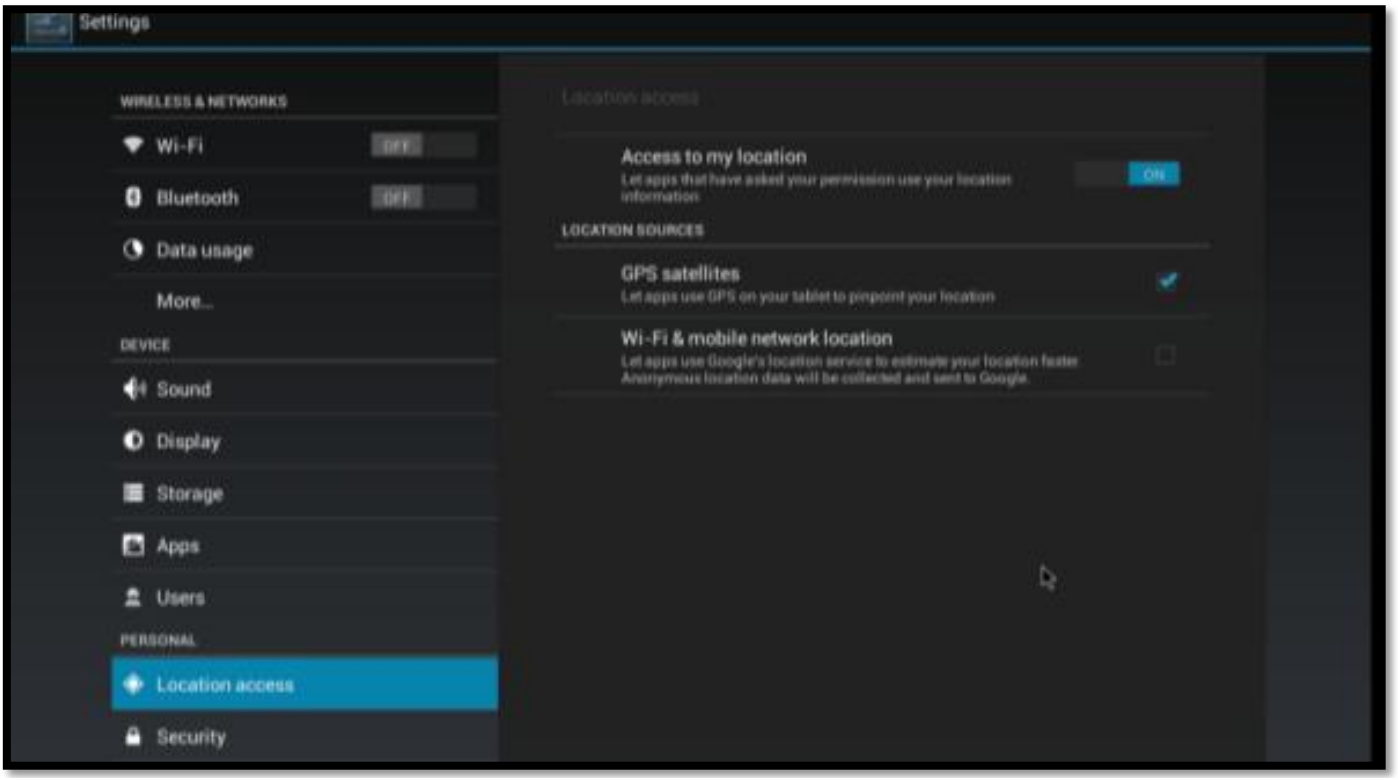
# Users

This section displays and allows you to edit user information.



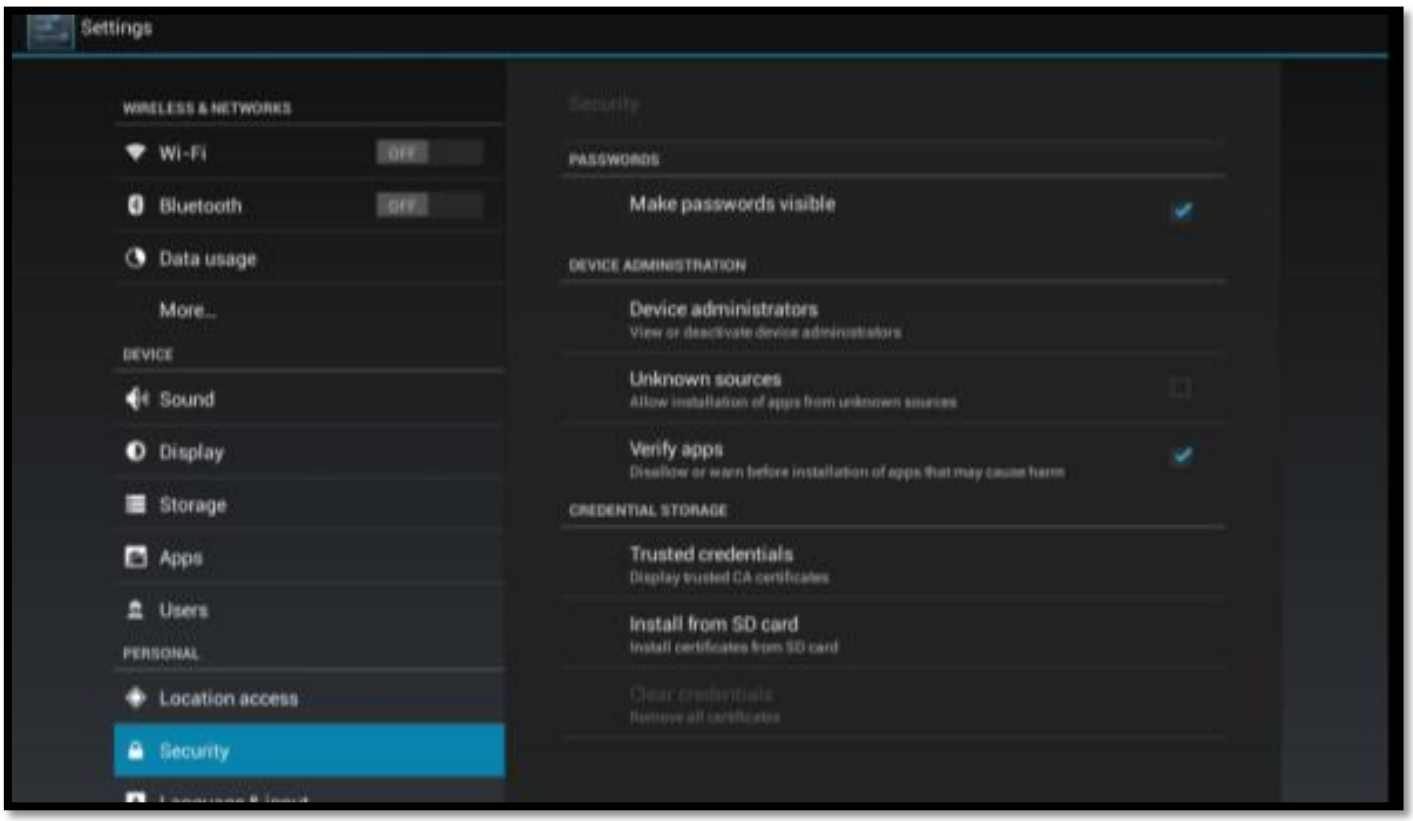
## Location access

This section allows you to set location access permissions.



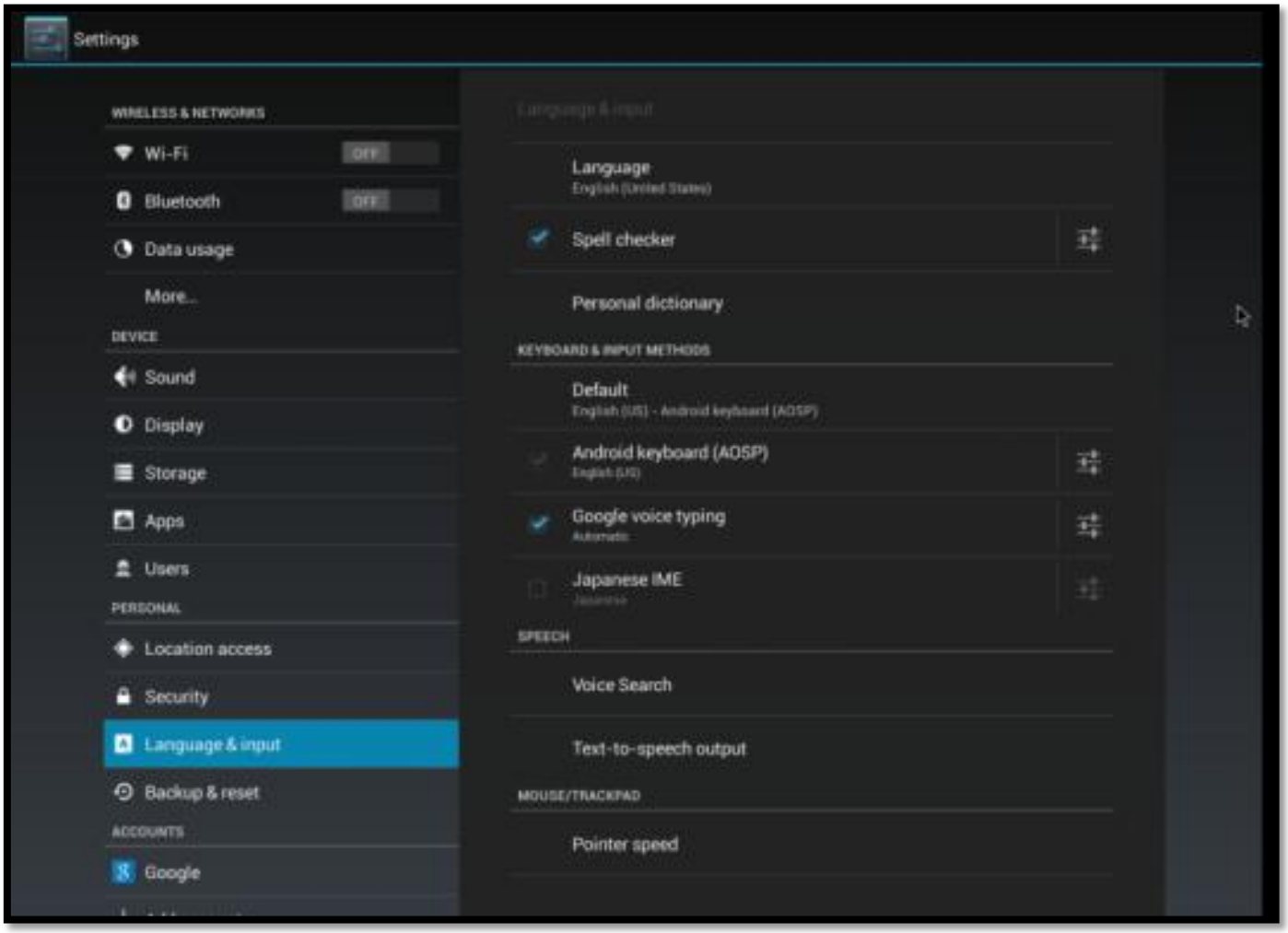
# Security

This section contains the security settings.



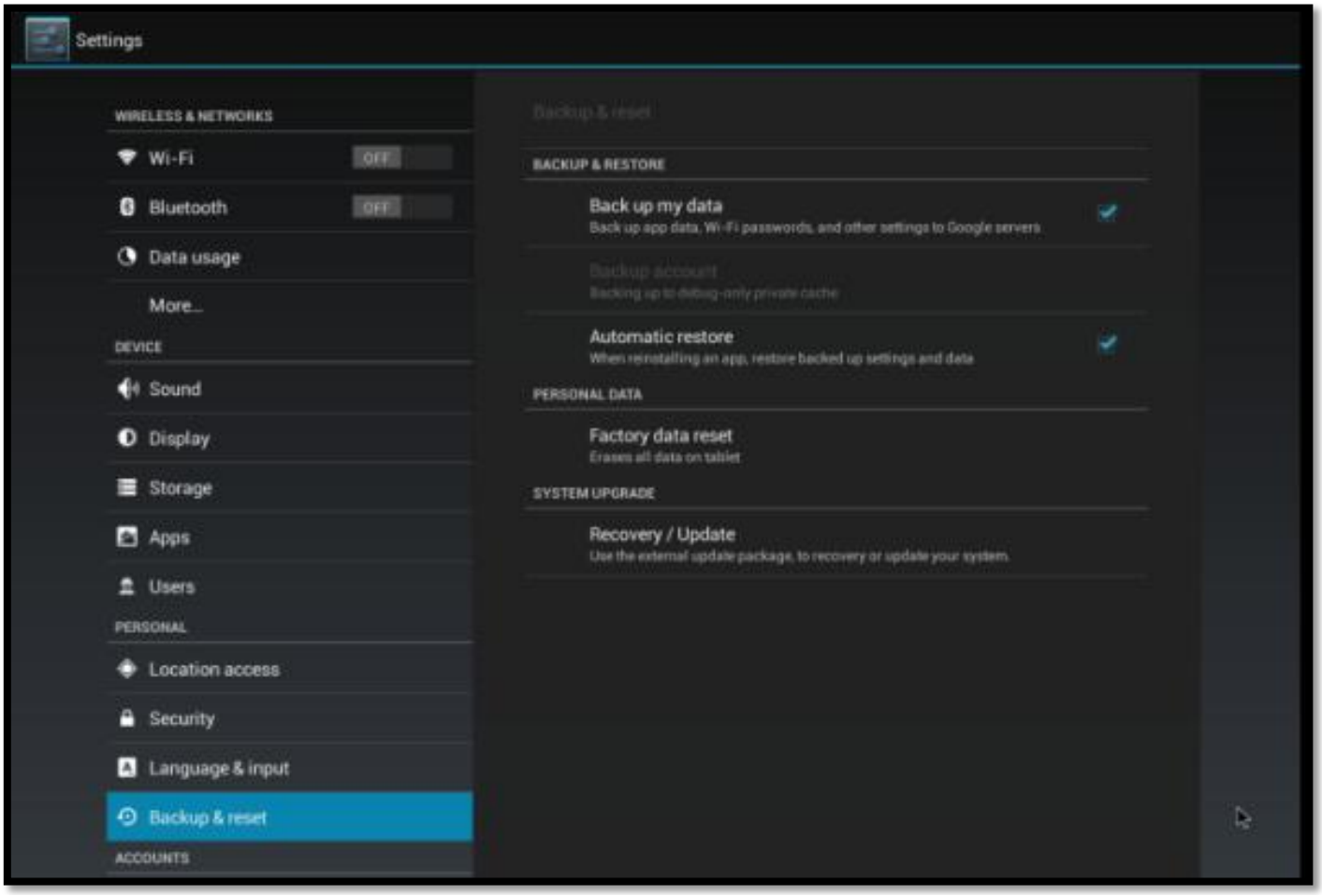
## Language & input

This is the section to adjust the systems language, keyboard and mouse options. Enabling and disabling the virtual keyboard was discussed previously in Section 3 pg.13.



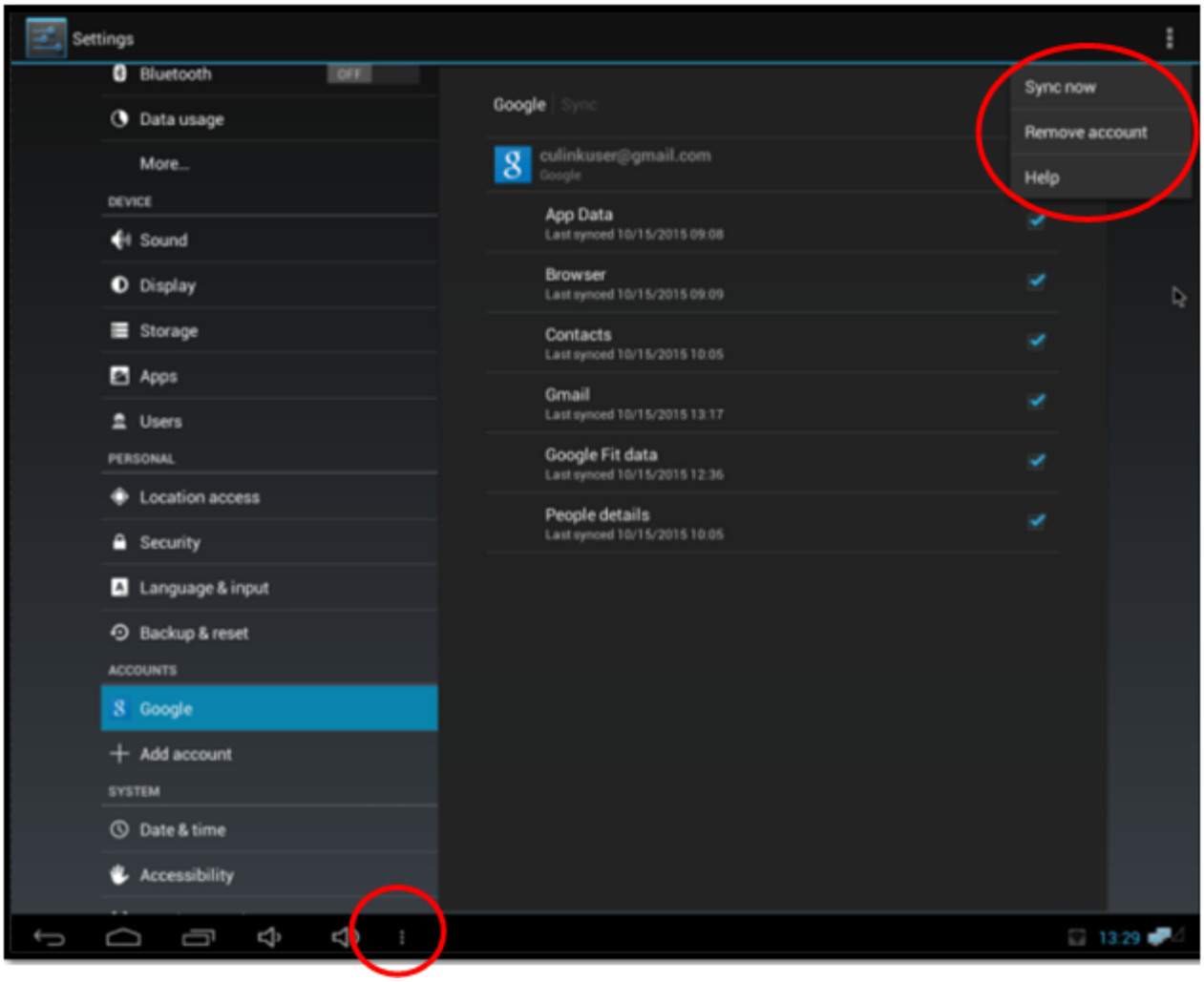
## Backup & reset

The backup and reset functions allow the user to restore back to factory settings, back up Apps, passwords and settings to Google servers and erase data on the SD card.

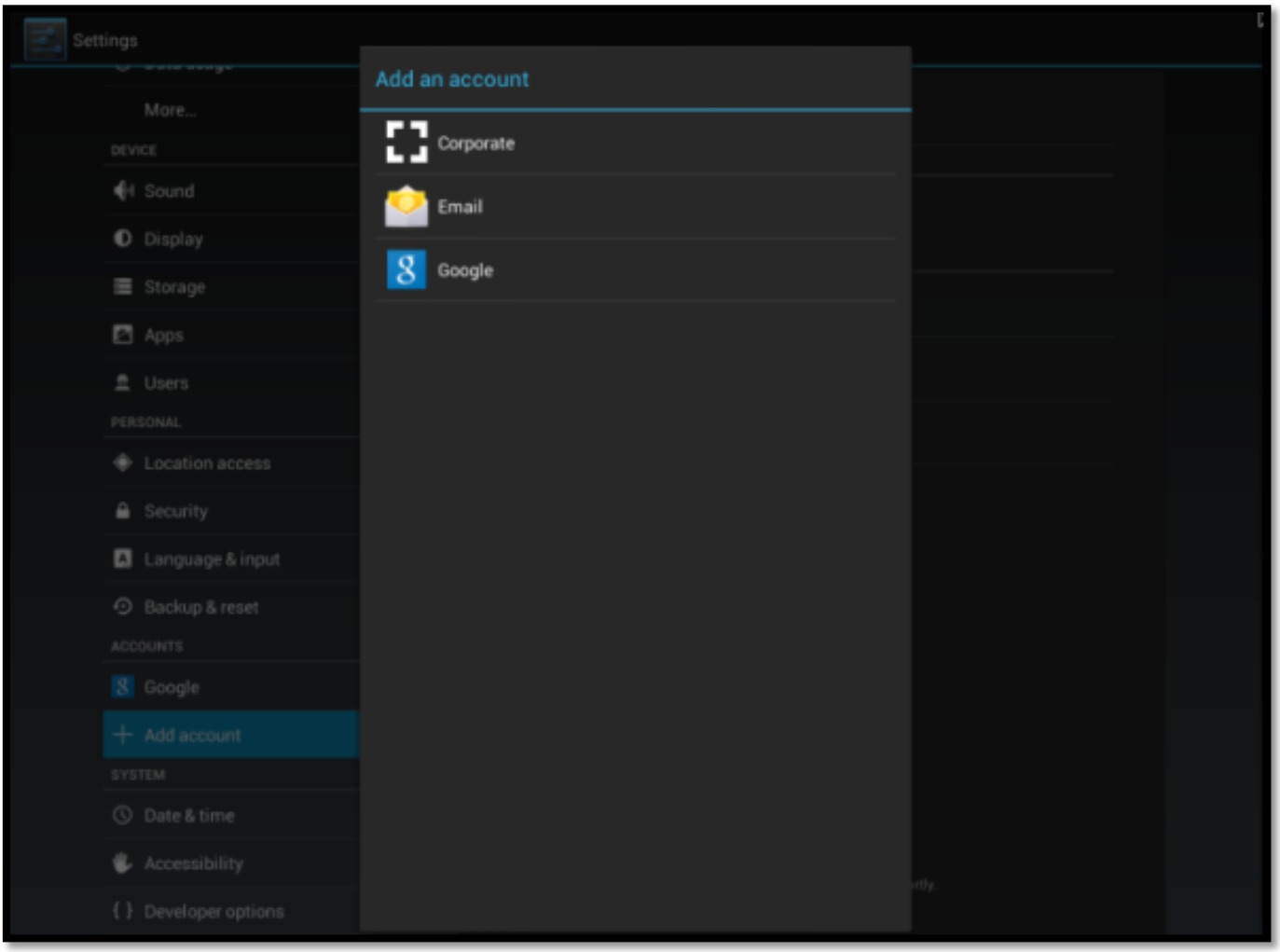


## Accounts

The accounts section allows you to add or delete email accounts and synchronize data. Left click on the three dot settings icon on the system bar and a menu will open at the top right corner of your screen.

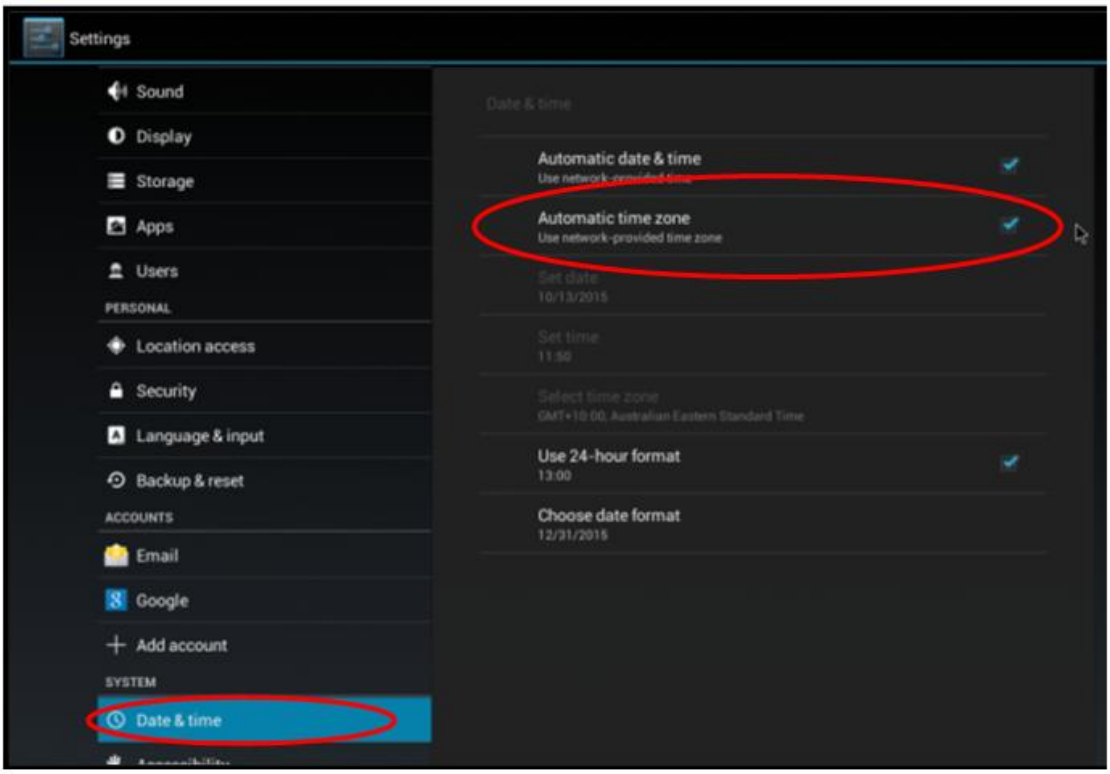


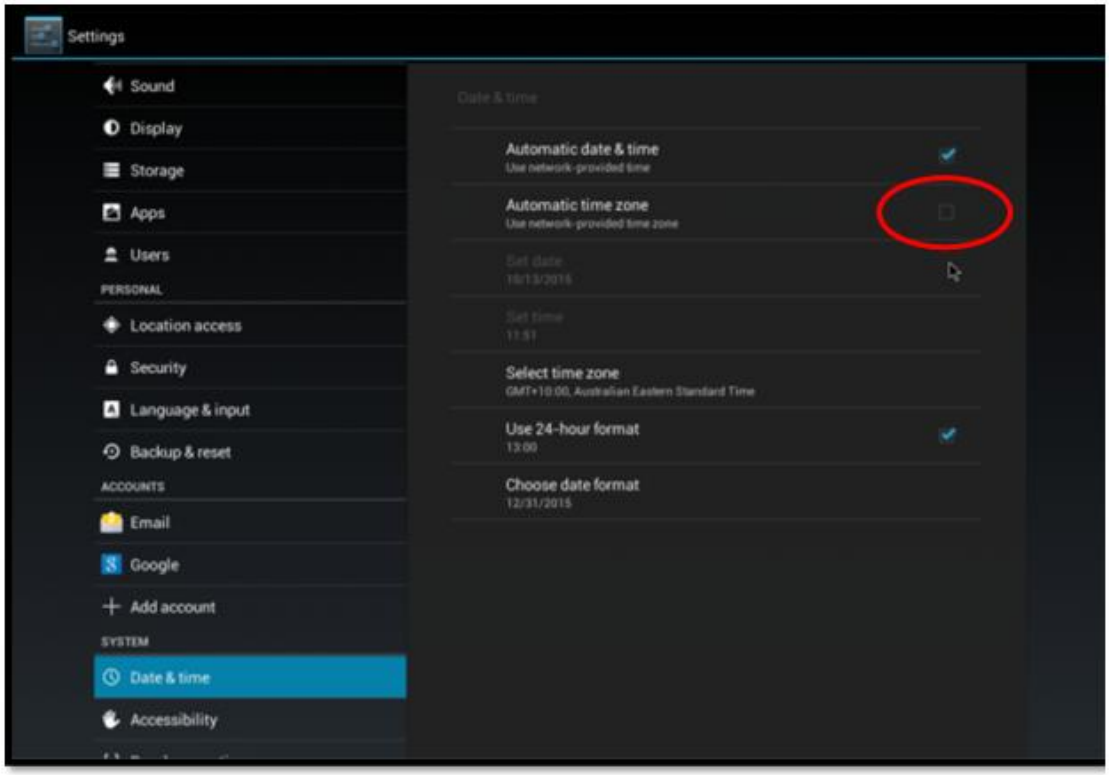
Left clicking on "+ Add account" will open the screen seen below.



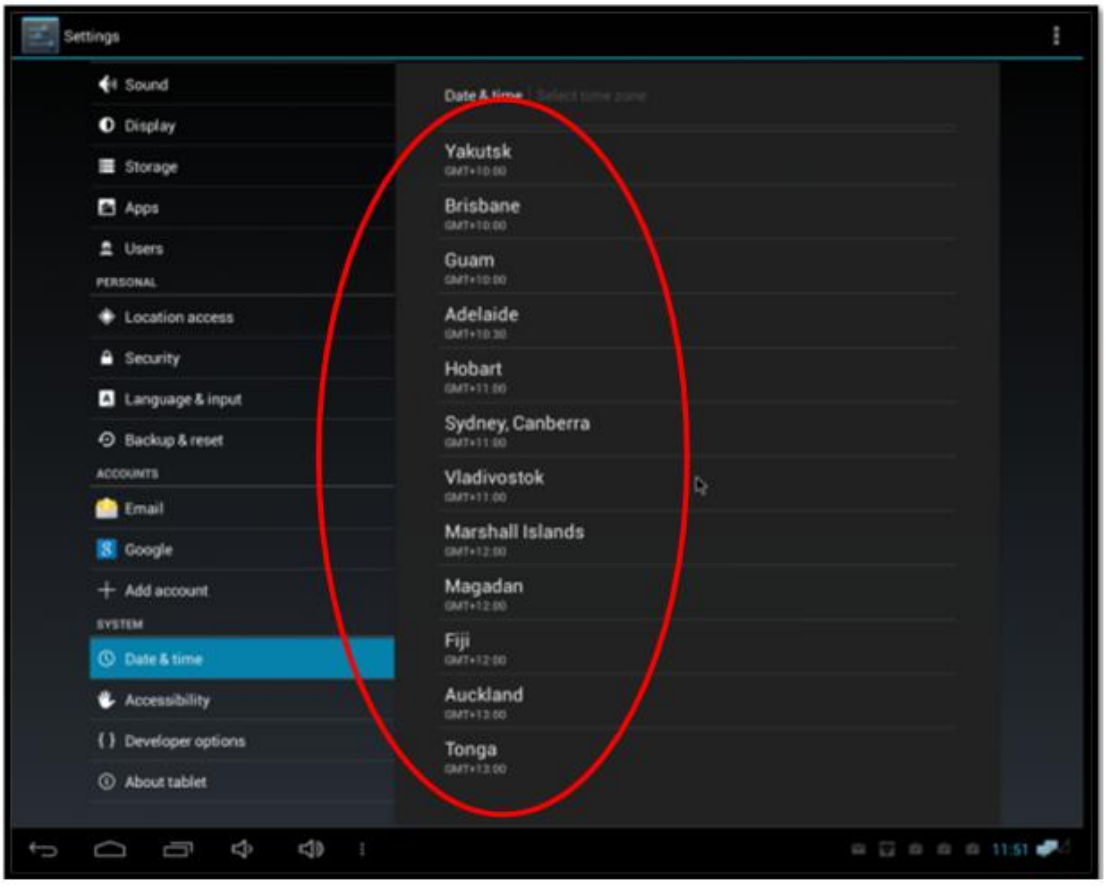
## Date & time

Date and time are factory set for Australian Eastern Standard Time at GMT + 10:00 with "Automatic date & time" and "Automatic time zone" selected. To adjust the time zone left click "Settings" then left click "Date & time" and remove tick from "Automatic time zone."





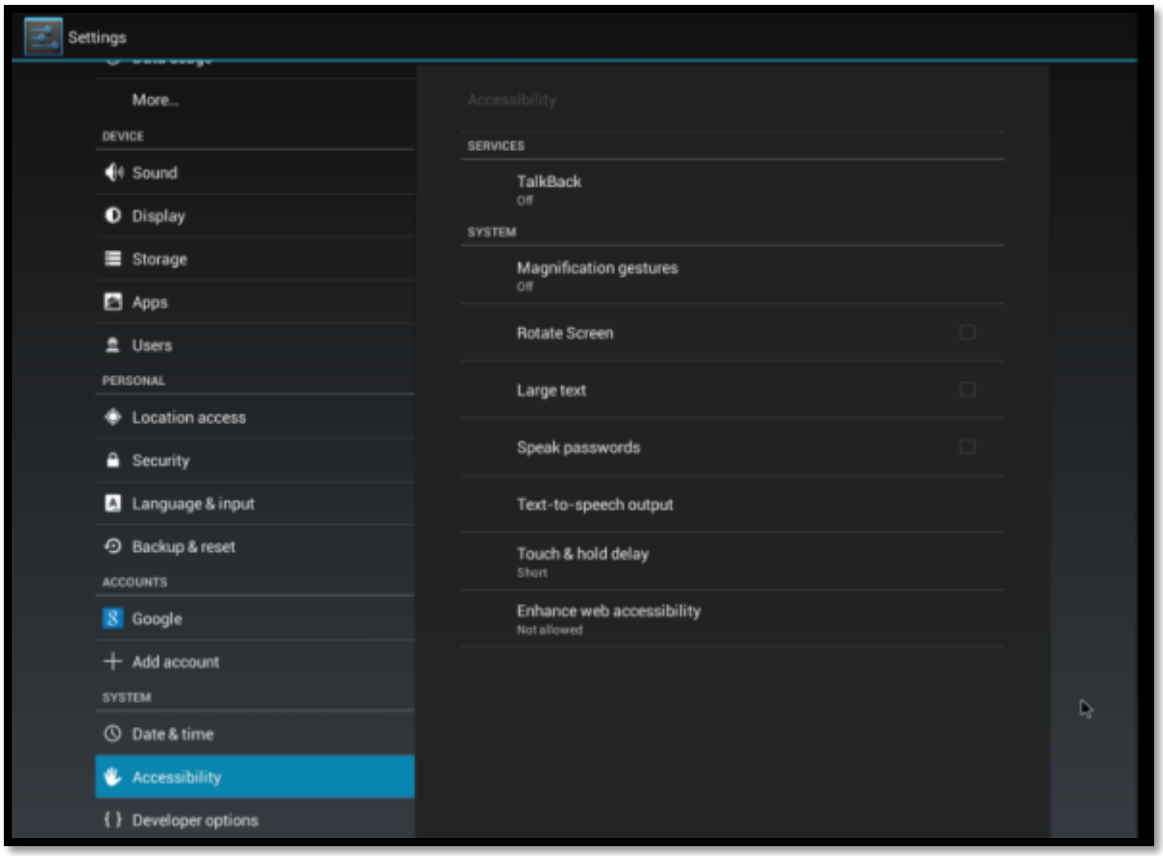

Select desired time zone.




Then tick the "Automatic time zone" box again and confirm that time and date have adjusted correctly.

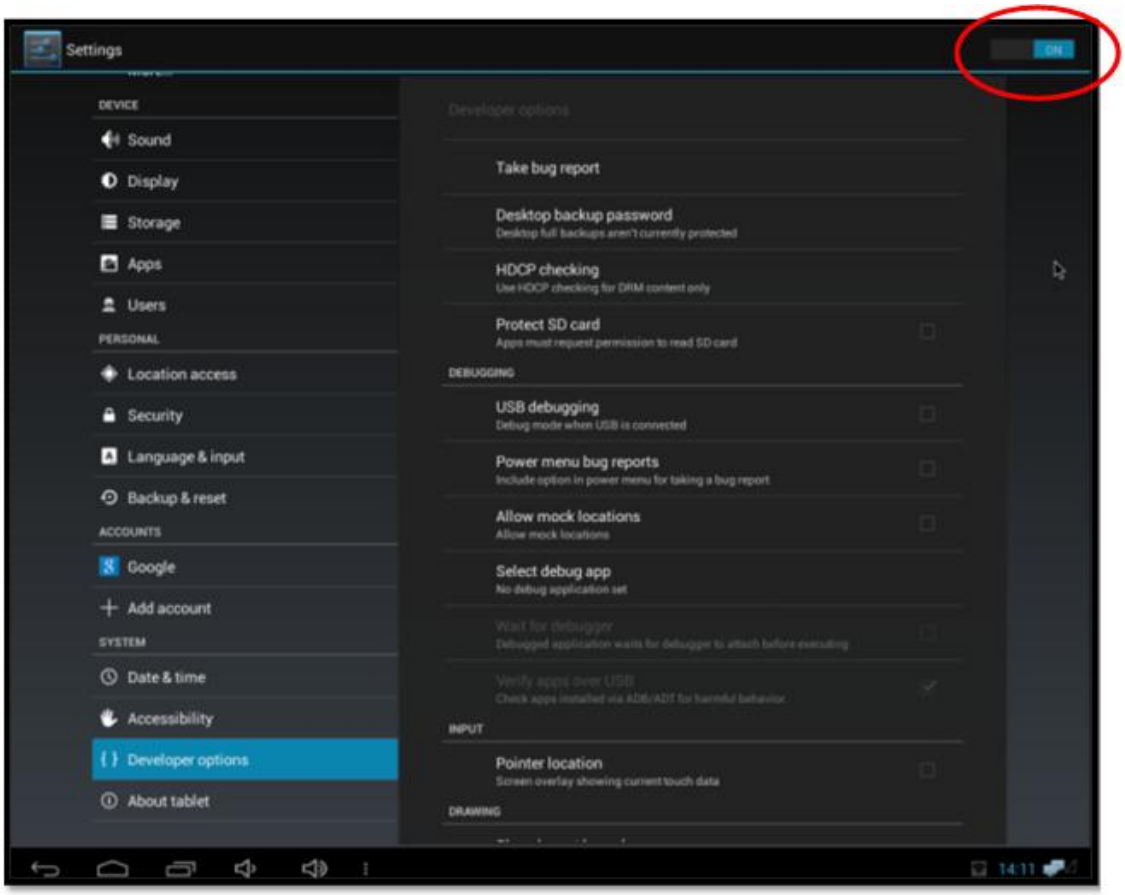
## Accessibility

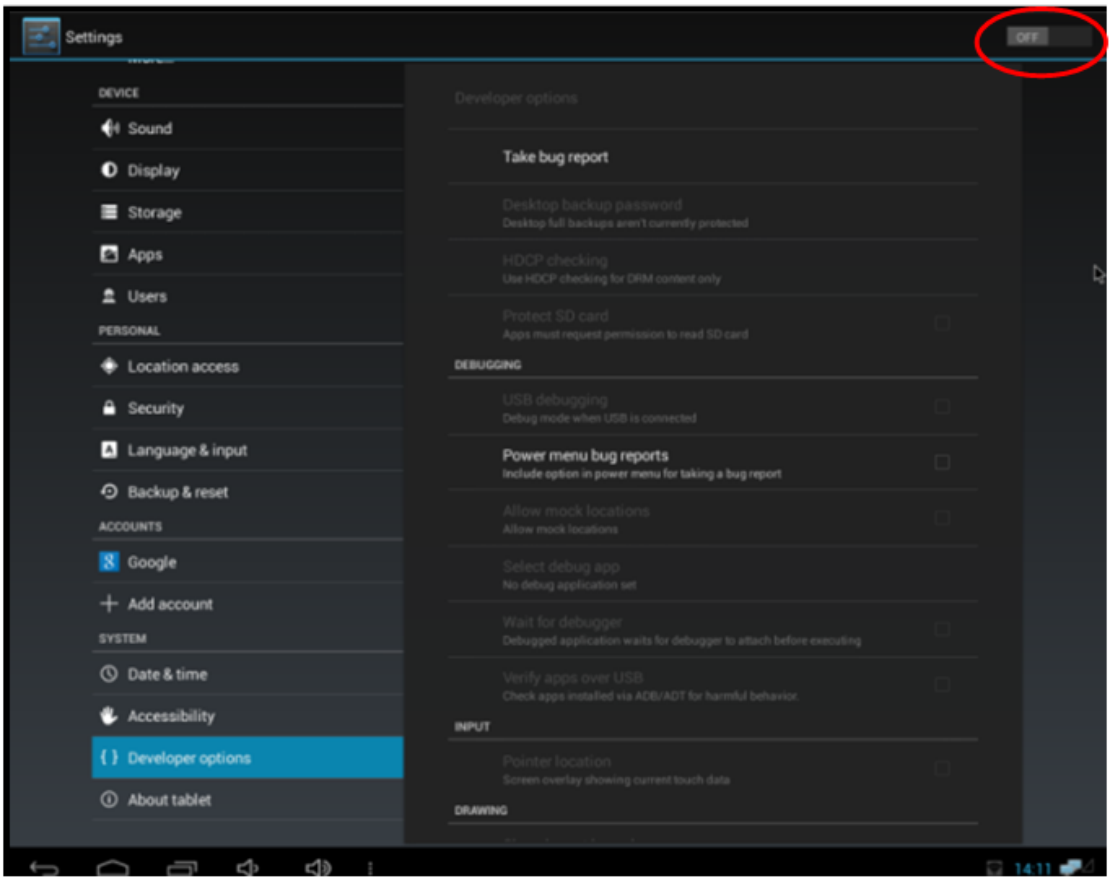
This section details how to select accessibility options for people with hearing and/or vision impairment.




## Developer options

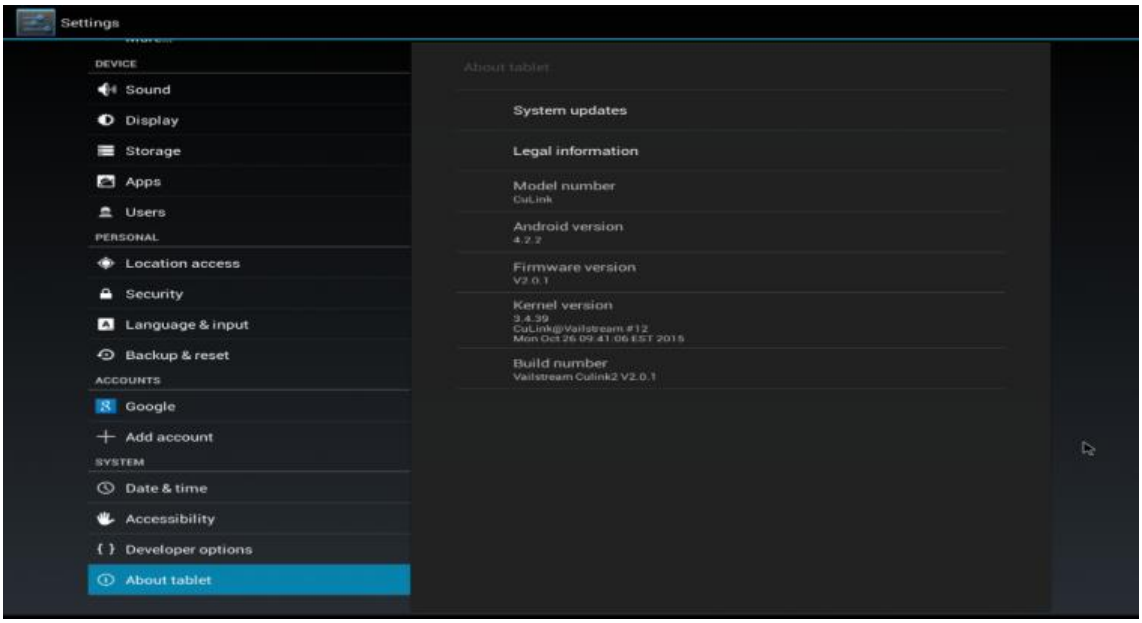
Developer options are for advanced users. Facilities include bug reports, debugging, input, drawing, monitoring and app settings. Developer options can be switched on or off by left clicking on the toggle switch.


Settings
ON
DEVICE
Sound
Display
Storage
Apps
Users
PERSONAL
Location access
Security
Language & input
Backup & reset
ACCOUNTS
Google
Add account
SYSTEM
Date & time
Accessibility
Developer options
About tablet
Developer options
Take bug report
Desktop backup password
Desktop full backups aren't currently protected
HDCP checking
Use HDCP checking for DRM content only
Protect SD card
Apps must request permission to read SD card
DEBUGGING
USB debugging
Debug mode when USB is connected
Power menu bug reports
Include option in power menu for taking a bug report
Allow mock locations
Allow mock locations
Select debug app
No debug application set
Wait for debugger
Debugged application waits for debugger to attach before executing
Verify apps over USB
Check apps installed via ADB/ADT for harmful behavior
INPUT
Pointer location
Screen overlay showing current touch data
DRAWING
14:11


Settings
OFF
DEVICE
Sound
Display
Storage
Apps
Users
PERSONAL
Location access
Security
Language & input
Backup & reset
ACCOUNTS
Google
Add account
SYSTEM
Date & time
Accessibility
Developer options
About tablet
Developer options
Take bug report
Desktop backup password
Desktop full backups aren't currently protected
HDCP checking
Use HDCP checking for DRM content only
Protect SD card
Apps must request permission to read SD card
DEBUGGING
USB debugging
Debug mode when USB is connected
Power menu bug reports
Include option in power menu for taking a bug report
Allow mock locations
Allow mock locations
Select debug app
No debug application set
Wait for debugger
Debugged application waits for debugger to attach before executing
Verify apps over USB
Check apps installed via ADB/ADT for harmful behavior
INPUT
Pointer location
Screen overlay showing current touch data
DRAWING
14:11

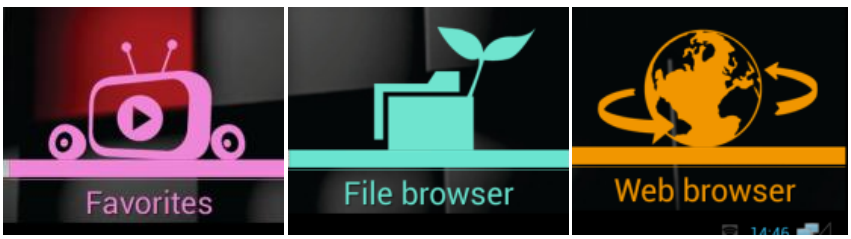
## About tablet

This section contains the system information in regards to legal licensing, model and firmware and software versions.




# 6. Favorites, File and Web Browsers

The last 3 icons on the home page are; Favorites, File browser and Web browser.



## Favorites

Favorite allows users to bookmark your frequently used App's rather than searching through the Applications section.

## How to add Apps to Favorites

From the home screen, use a mouse to left click the chosen Application.

Use the keyboard arrow key to select the App you wish to add to Favorites.

Use the mouse and left click menu icon (3 vertical dots).

A menu on the bottom will appear. Use the mouse to left click the "Add to favorites app list".

## File Browser

The File Browser allows users to access your files in the CuLink and other external memory devices. User can copy files between the CuLink and external memory devices.

## How to transfer files between the CuLink and an external memory device

From the home screen, use a mouse to left click the "File browser".

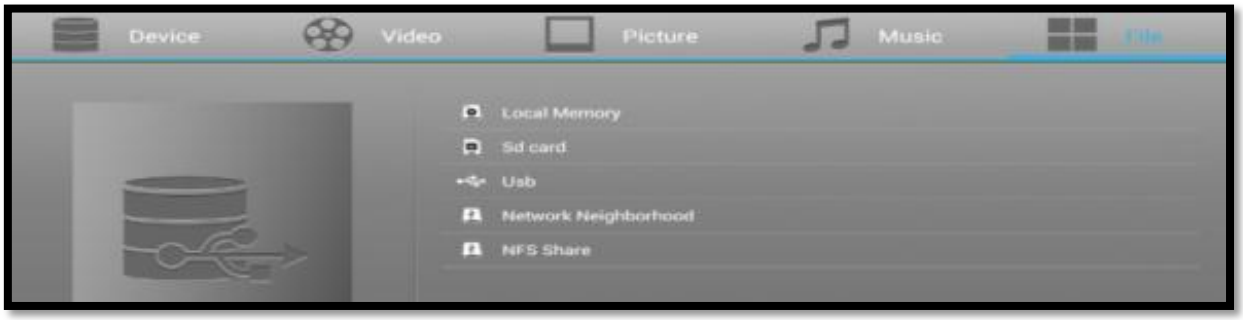
Locate the file you wish to transfer in one of the folders;

Local Memory (CuLink Memory)

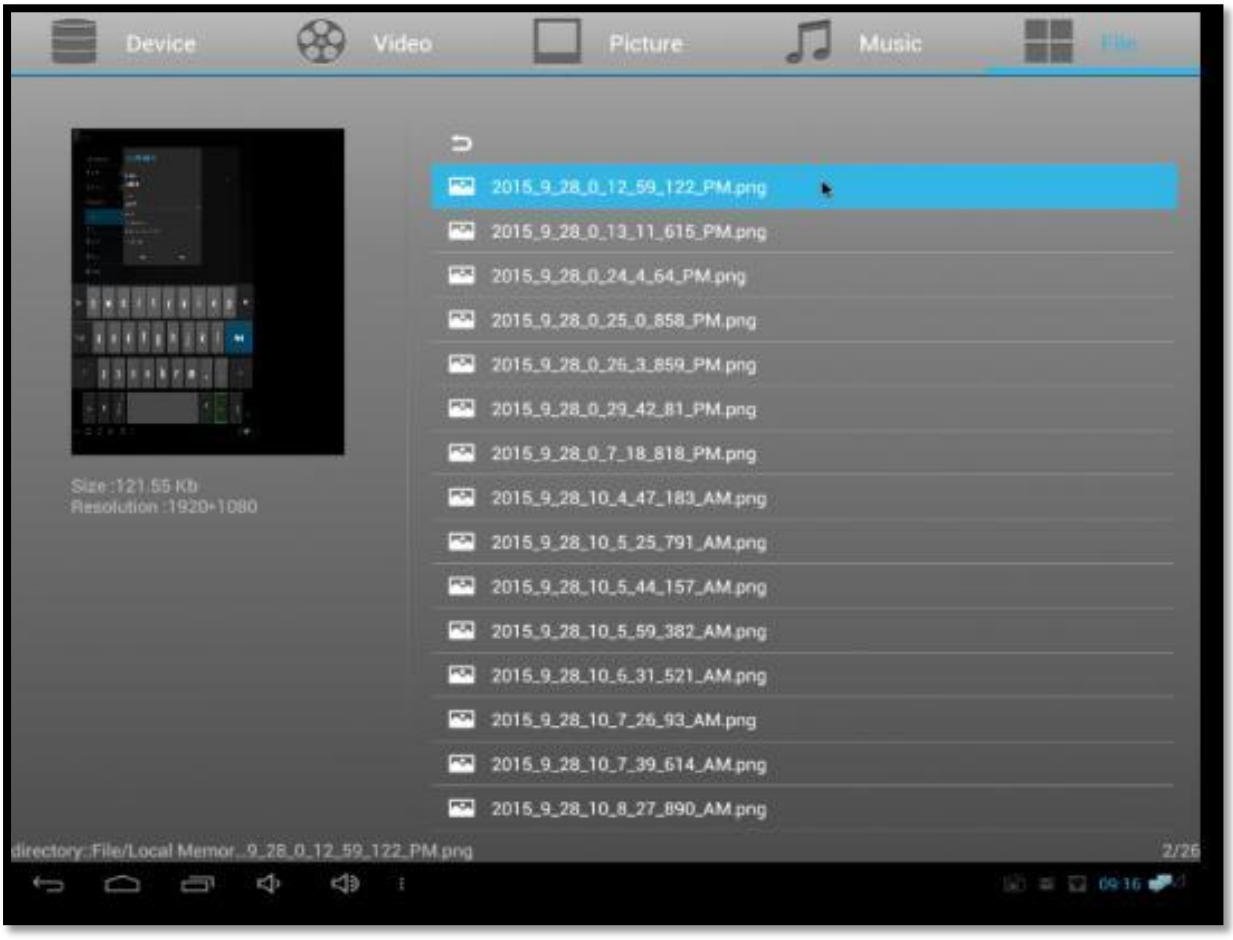
Sd card (micro SD card)

Usb (USB Memory Device)
Network Neighborhood
NFS Share

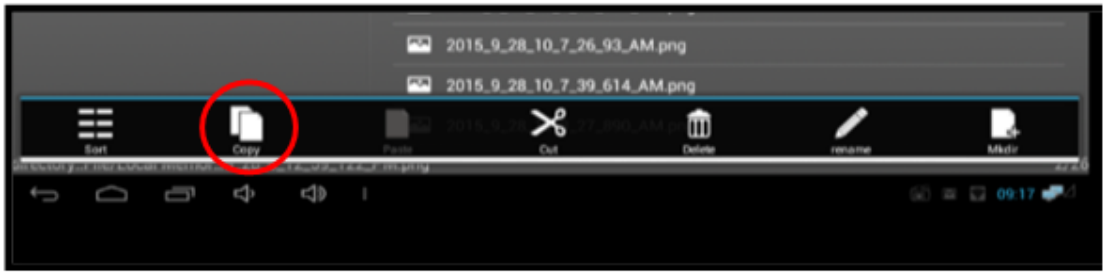
Left click the mouse to select.



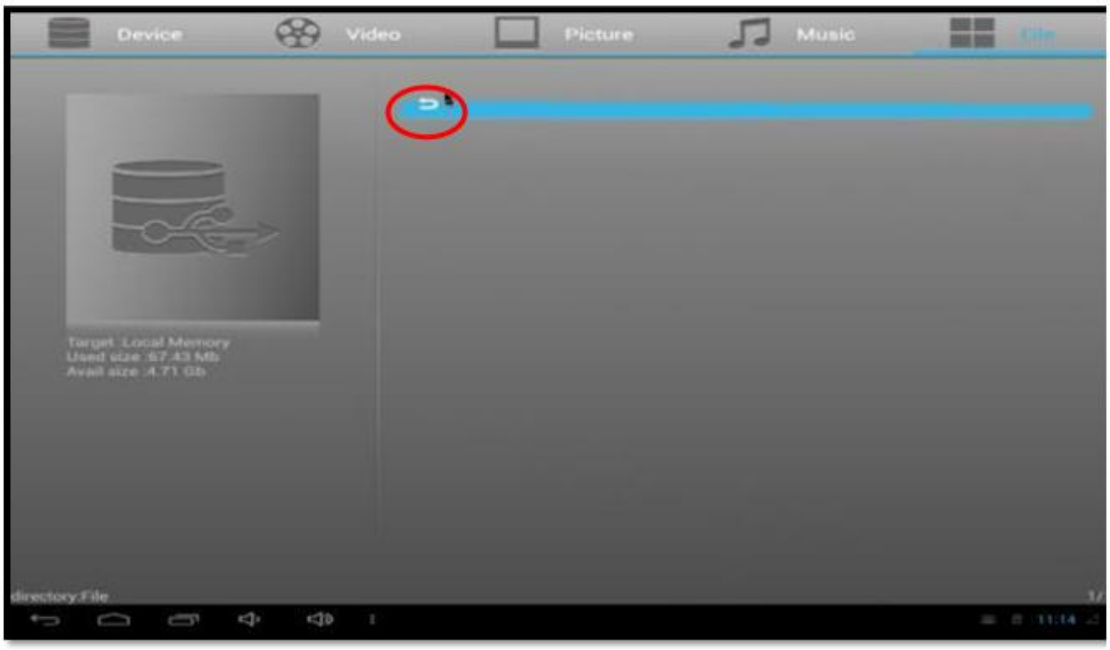

Hold down the left mouse button on the file you wish to transfer.



A menu on the bottom will appear. Then use the mouse to left click on "Copy".




Click the left mouse button on the return icon at the top of the list.



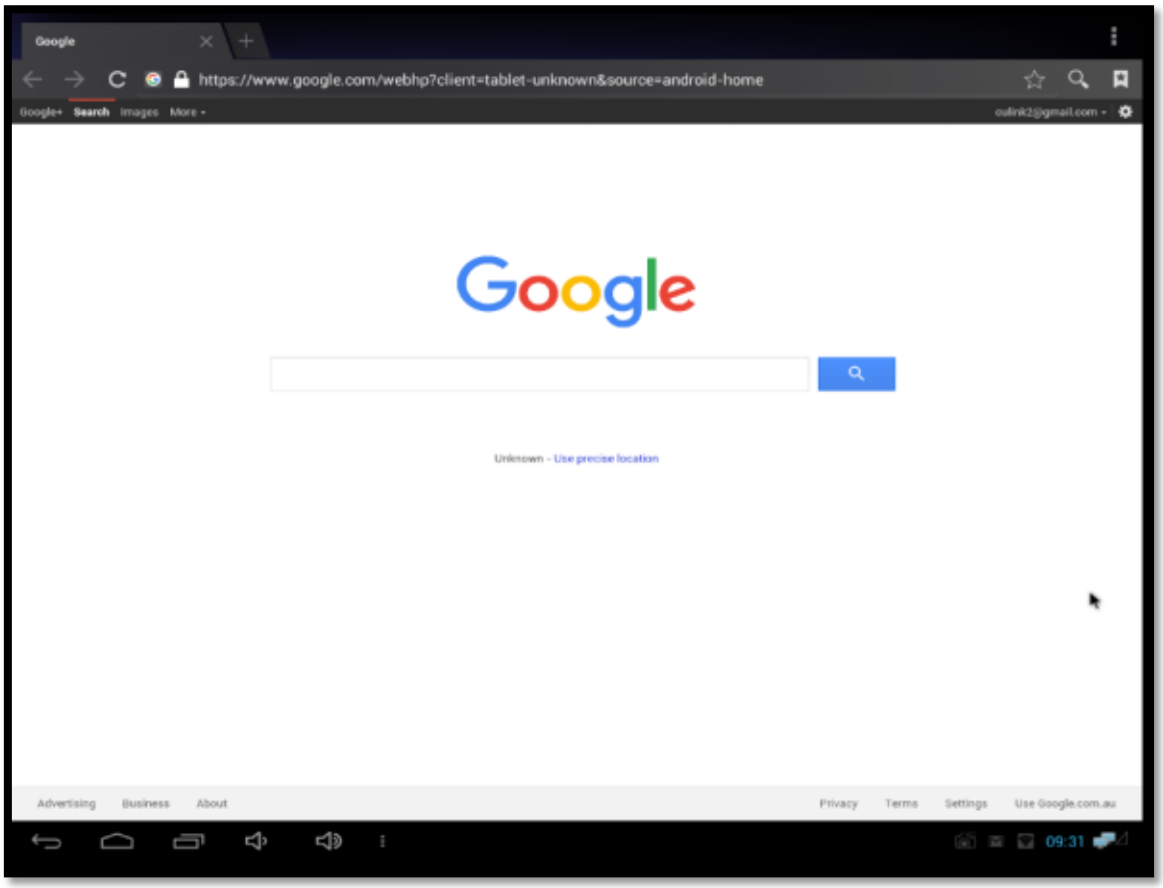

Go to the location where you wish to place your file.

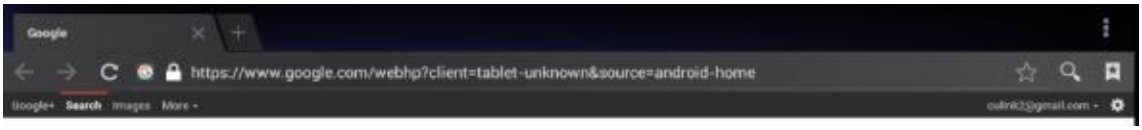
Hold the left click button on the mouse on the folder you want to save to.

A menu on the bottom will appear. Then use the mouse to left click on "Paste".

## Web Browser

Access the World Wide Web using the Web Browser. The Web Browser is a default Android web browser.






**Tab strip:** Shows all the opened tabs.

**Back:** Trace back to the previous web page in the current history.

**Forward:** Trace forward to the previous web page in the current history.

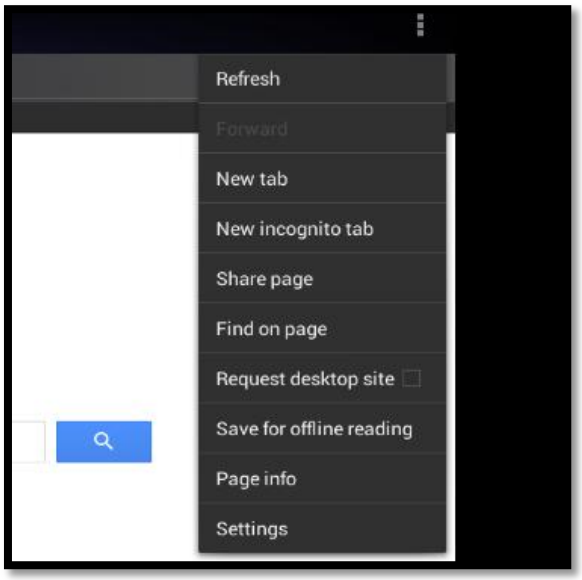
**Refresh:** Reloads the web page.

**Address bar:** Shows the current web address (URL), and used navigates to the different web page.

**Menu Icon:** Shows web browser menu.

## Web browser menu

Left click on the 3 vertical dots on the top right side of the screen to open the browser menu.



| | |
|---|---|
| **Refresh:** | Reloads the web page. |
| **Forward:** | Trace forward to the previous web page in the current history. |
| **New tab:** | Open a new tab. |
| **New incognito tab:** | Open a new tab, with no history stored after closing. |
| **Share page:** | Send URL via Bluetooth, Gmail, or Google. |
| **Find on page:** | Search a word on the web page. |
| **Request desktop site:** | Reload web page that is normally seen using a desktop. |
| **Save for offline reading:** | Save web page in a cache. |
| **Page info:** | Properties of the web pages. |
| **Settings:** | Open web browser setting. |

# 7. Warranty & Support

Your CuLink by Vailstream is covered by a 1 year manufacturer's warranty. Do not open your unit as there are no customer serviceable parts and your warranty will be voided. Vailstream support staff is available to assist with any problems you could encounter or questions you may have. Call 1-300-CuLink (1-300-285-465), email Culink@Vailstream.com or refer to our website www.vailstream.com.au.

CTI | Control Technologies International